CARLOS PORTELA

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## POSITION SOUGHT

The ideal project would have me participate in design and architectural decisions as well as hands-on coding:

1. Python 3, Flask, Jupyter, NumPy, Pandas, PyLint, PyChecker
2. React / React Native, Electron, Ionic / React, Web, Mobile apps (ES6, Firebase, Redis, Next JS)
3. Node JS services (Express, Hapi, Docker, GraphQL, Prisma.io, Apollo, MySQL, Mongo, PostgreSQL)
4. iOS application development (Swift, Objective-C)

## SURVEY OF TECHNICAL SKILLS

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| --- | --- | --- | --- | --- |
| LANGUAGES | WEB / MOBILE | DATABASES | PLATFORMS | DEVELOPMENT |
| Python 3, NumPy, Pandas | React & React Native, Ionic | MySQL / Redis | iOS 13 | Jupyter, PyLint  |
| JavaScript / ES6 / ES7 | Node / Express / Vue.js | Firebase | Mac OS X | VS Code, Xcode |
| Swift / Objective-C / SwiftUI | MobX / Redux Toolkit | PostgreSQL | Windows 11 | Android Studio |
| C / C++, C#, XAML | GraphQL / Apollo / Prisma | MongoDB | Ubuntu 20 | Git / Github / JIRA |
| HTML5 / CSS3 | NGINX / NextJS / ES6 | SQL Server | Chrome OS | Electron JS |

## SUMMARY OF EXPERIENCE

I am a software engineer and architect with 25+ years of experience. I am passionate about producing results promptly, reliably, and efficiently.

I **can lead** your development team, be a hands-on **developer**, or do **both**. My strengths include:

* **Functional Programming** and **Object-Oriented** Design methodologies.
* Product architecture, design, and development for desktop, web, and mobile.
* Recent convert to Python 3, NumPy, Pandas, Flask, PyLint, PyChecker, Jupyter, etc.
* JavaScript, ES6. ES7, **React JS**, **React Native**, **Ionic React**, **Electron**, Vue.js, Redux, Sagas, Node, Express.
* iOS / Mac OS X development using Swift, Objective-C, Xcode 13, and Cocoa / Touch / SwiftUI.
* Excellent communication skills with both team leaders and team members.
* Agile / SCRUM software developer.

## CHRONOLOGICAL PROFESSIONAL EXPERIENCE

### SB, Sydney, AUG 2022, to Present (100% Remote)

* Implementing **React Native** MVP, including Node JS backend, for a mobile app in the health coaching sector.
* I took over an initial failed attempt and restarted all over. Implemented a Node JS service from scratch.
* The app is currently being readied for a beta release.

### Cargill, MAR 2022, to APR 23 (100% Remote)

* Senior mobile dev on implementation of a **React Native** application to manage maintenance work orders.
* The application operates in offline and connected modes to allow technicians to operate from remote locations.
* This app interfaces with an SAP backend server using **axios**, redux, redux Toolkit.

### Yoke, San Francisco, MAR 2022, to SEP 2022 (100% Remote)

* Senior lead developer for a **React Native** KIOSK application targeting retail POS locations, hotels, airports, etc.
* The app runs on its own Android-based hardware.
* Project ran in parallel with Cargill’s project shown above.

### Quartzy, DEC 2021, to FEB 2022 (100% Remote)

* **Short-term** engagement where I provided guidance on the seeding of a new **React Native** application.
* I created the project, selected tools & components, established an i18n strategy, a redux store and the first MVP.
* Implemented QR code component and left the project ready for further development by a very capable team.

### Ryze Money, Inc., JUN 2021, to DEC 2021 (100% Remote)

* Implementing a **React Native** app to buy and sell Bitcoin among other yet-undisclosed notable features.
* Leading the client-side of this greenfield project from the ground up in direct collaboration with project owners.
* Interfacing with FinTech technologies such as Plaid, APEX, Socure, PrimeTrust, Atomic, Sardine, and others.

### SOLTECH, Inc., AUG 2021, to OCT 2021 (100% Remote)

* Implemented the initial **React Native** MVP of a social network app using the Mastodon project and related API’s.
* I developed the app in direct collaboration with project owners, UI/UX designers, and backend engineers.
* This was a Twitter-like application, with several new twists and features, that worked in a federated environment.

### TruckStops, FEB 2021, JUN 2021 (100% Remote)

* Implemented a **React Native** app to allow long-haul truckers to get paid quickly by managing a virtual account.
* Lead this greenfield project from the ground up in collaboration with backend architects and their team.
* In addition to hands-on coding, I lead an offshore team, enforcing best practices, providing guidance, etc.

### Entertainment Partners, Inc., DEC 2020, FEB 2021 (100% Remote)

* I was responsible for preparing & documenting a **React Native** app to transfer the project to another team.
* I produced technological “deep dives” into complex areas of the application so new developers can onboard quickly.
* I contributed to the establishment of a proper development process so the new team can hit the ground running.

### Cornea Connect, Inc., OCT 2020, DEC 2020 (100% Remote)

* Helped this company push this product to market, implementing last-minute features, fixes, etc.
* **React JS** application manages collection of human corneas for transplant; Material-UI, Node JS, Express, MySQL
* Implemented several new components, including a drag-and-drop “pin the tail” type of image editor

### DHS COVID-19, JUN 2020, to SEP 2020 (100% Remote)

* Implemented **React Native** app targeting iOS and Android devices. **React Native**, Redux, Notifications
* App detected proximity (Bluetooth) to infected individuals and through various algorithms assigned a Health Score
* App anonymously reports possible contacts to a server, retrieves geolocated reports to further compute Health Score

### Rodeos, Inc., JAN 2020, to JUN 2020 (100% Remote)

* Implemented consumer-facing Expo-based **React Native** Expo app targeting iOS and Android devices.
* App allows riders to find and register for Mechanical Bull events; also allows operators to run the event (dual mode).
* Server-side Node JS / Express / MySQL and Stripe. Used Web views for help, and MobX for app store.

### Dribe Inc., JAN 2020, to MAY 2020 (100% Remote)

* Worked on b2c and b2b versions of a **React Native** application targeting iOS and Android devices.
* Members subscribe to short-term leases and special daily rides. Heavy use of smart web views.
* Implemented tracking of **Iterable**-hosted events, implementing Push Notifications. Using MobX for app store

### Univision, NOV 2019, to JAN 2019 (100% Remote)

* Sr software developer implementing a **React Native** app targeting **iOS** and **Android** devices.
* Extensive handling of video content, worked on closed caption (cc) feature, i18n, and Vue.js components.
* Reimplementing Weather Channel mapping controls to meet new standards and upgraded functionality.

### Cargill, AUG 2019, to NOV 2019 (100% Remote)

* Hands-on dev on the implementation of 3 **React Native** applications targeting **iOS** and **Android** devices.
* Application automated various aspects of on-site inspections and maintenance visits.
* Implemented off-line storage so apps can operate disconnected and sync up with server, async storage.

### Shofur, APR 2018, to NOV 2019 (100% Remote)

* Worked on implementation of 2 customer-facing Expo-based **React Native** application targeting **iOS** and **Android**.
* Implemented native screens / Web views from new wireframes. Extensive animations, dragging, tracking, etc.
* Implemented geo-centric image sever that returns best-fit images given latitude & longitude.

### GoDaddy, SEP 2018, to APR 2019 (100% Remote)

* As a Sr developer I implemented customer-facing **React Native** application targeting **iOS** and **Android**.
* Implemented native screens from new wireframes; ported business logic from existing **React JS** app.
* Implemented complex calendar component to manage appointments, blocked time, etc.

### Condunity, AUG 2017, to MAY 2018 (100% Remote)

* Tech-Lead to 3 developers in the design & implementation of system to foster “unity” amongst condo residents.
* Implemented specific Vue.js lightweight components that lived in a WebView
* Implemented Expo-based **React Native** / Firebase / **GraphQL** app for providers to admin offerings to residents.

### hyphenAI, SEP 2016, to AUG 2017 (100% Remote)

* Tech-Lead of a team of 3 developers in the design & implementation of a system to conduct virtual interviews.
* Implemented web application with **React** / **Redux** and an Expo-based **React Native** app for **iOS** and **Android**
* Implemented drag & drop graphical interview builder to compose complex, multi-path employment interviews.
* Implemented billing system (UI & backend) including credit card / **ACH** transactions via **Stripe** API.
* Created web chat client to collect interview answers, uploaded files, and AI-weighted responses from users.

### Strax, JUN 2016, OCT 2016 (100% Remote)

* Tech-Lead in the design & implementation of a configurable eBay-like system targeting specific business domains.
* Implemented several web and mobile apps with **React JS** / **Redux** / **React Native** and **Electron JS**.
* Designed & implemented schema-free, backend-agnostic Facetted Search service for **MySQL** & **Mongo DB**.
* Packaged all micro services as Docker containers for complete flexibility and ease of testing and deployment.

### IBM Watson, SEP 2015, JUN 2016 (100% Remote)

* As a Senior dev I planned Natural Language Processing / Classifying / Computing for customer service interactions.
* Ported a large jQuery web app to **React JS** using **ES6**, **Webpack**, **Redux**, fetch, Web views, D3, and **Cordova**.
* Implemented REST backend with **Node** JS / **Express JS** to proxy application data via **IBM Watson** Services.
* Implemented educational **iOS** application using **Swift** 2.0, **Objective-C**, VR-Unity, and **Xcode** 7.

### Quiet, MAR 2015 – AUG 2015 – (100% Remote)

* As a Sr dev I implemented **Angular** JS app to parse, upload, and validate Excel bundles of commercial loans,
* Implemented complex **Angular** JS page to map Excel fields to XML EDGAR specifications and SEC standards.
* Implemented complex **Angular** JS page to correct errors in financial deals using the above-mentioned mappings.

### Chico’s FAS, JAN 2015, APR 2015 (100% Remote)

* I was a 1-man-team who implemented a large POC that involved **Mac OS X**, **iOS**, and **Node** JS components.
* Implemented **iOS** **iPhone** / **iPad** application to manage and remote-control a **Mac OS X** application.
* Implemented two-way **REST** **API** for both **iPhone** / **iPad** and Mac Pro to exchange data, commands, stream video.
* Implemented several views in the **Mac OS** X app as embedded Web view controls using **React** JS / Redux.
* Implemented three Node JS services that interfaced with **MySQL**, **Mongo DB**, and Elastic Search databases.

McGraw-Hill, AUG 2014, JUL 2015 – (100% Remote)

* Participated in the design and implementation of a kiosk-style app for **iOS**, **Linux**, **Chrome OS**, and **Mac OS X**.
* Developed kiosk-style Chrome OS application using HTML5, JavaScript, CSS3, **Angular JS**, Chrome OS API.
* Implemented secure browser using Chromium / webkit under Linux and Mac OS X.
* Implemented web application architecture using Backbone, **Node JS**, Grunt, Browserify, Bootstrap, others.

### Frensicles.com, Inc., JAN 2012, DEC 2015 – (100% Remote)

* Designed, implemented, and deployed to **Windows Store** a mobile application of the social / entertainment genre.
* Employed **HTML5**, **JavaScript**, **CSS3**, and **Angular** / **Ionic** for **Cordova** app, C#/XAML for Windows 8 Store app.
* Services completely redesigned and implemented using NGINX, **Node** JS, **Express** JS, **Mongo** DB, and **MySQL**.

Bruker-Nano, FEB 2014, MAY 2014 – (100% Remote)

*(This project took place in parallel with the Austin, TX project below)*

* Implemented a WPF application to control the surface analysis of iPad panels (for Apple)
* Application allows user to customize measurement behavior as well as various other settings and recipes.
* Implemented complex graphic charts to display measurement results for up to 8 locations and 9 layers deep.

Dell, Inc., OCT 2013, APR 2014 – (90% Remote)

* Senior member of team of developers implementing the mobile responsive version of the company’s web site.
* Employing ASP.NET MVC 4 and Razor engine to render Angular JS / Bootstrap responsive pages.
* Daily activities included implementation of Angular JS directives, Razor page layouts, and back-end calls via Ajax.

ShopPost, Inc., NOV 2013, DEC 2013– (100% Remote)

*(This project took place in parallel with the Austin, TX project above)*

* Implemented high-performance system to serve a web application to thousands of concurrent users.
* Employed combination of Node JS instances, NGINX, and memcached to accomplish high throughput.
* Created Express JS / Angular JS application to render HTML pages from data stored in MongoDB repository.

Bank of America / Merrill Lynch, MAR 2013, OCT 2013– (75% Remote)

* Senior member of team of architects / designers planning the bank’s next generation Financial Advisor workstation.
* Implemented Angular JS directives to wrap WinJS controls to provide some degree of platform independence.
* Designed Angular JS container application that hosts components developed by independent teams.

Federal Drug Administration (FDA), AUG 2013, NOV 2013 – (100% Remote)

* Designed and architected a mobile application to facilitate on-site FDA inspections of international shipment arrivals.
* HTML5 / JavaScript / CSS3 in Windows 8 environment utilizing WinJS framework targeting a Surface tablet.
* Utilized SQLite3 for Windows Runtime to implement local storage database. Used web views for help system.

Veterans Administration (VA), MAY 2013, AUG 2013 – (100% Remote)

* Senior developer responsible for implementing the Electronic Executive Briefing Book application for Windows 8.
* Application, developed in C# / XAML, accesses SharePoint servers to retrieve and upload calendars and documents.

Dell, DEC 2012, MAR 2013 – (75% Remote)

* Participated in implementation of Dell’s Windows store app using HTML5, JavaScript, CSS3, and WinJS.
* Implemented a parallax effect solution as well as Windows 8 Live Tile functionality, among many other features.

K r o n o s, OCT 2012, NOV 2012 – (50% Remote)

* Implemented a Proof-of-Concept application for Windows 8 using HTML5, JavaScript, CSS3, and the WinJS API.
* Implemented Windows 8-specific features such as live tiles, pinned pages, app bar, nav bar, search contract, etc.

Office Depot, SEP 2012, OCT 2012 – (100% Remote)

* Member of a small team of developers implementing a retail Windows 8 application.
* All development done in C# and XAML while accessing the WinRT API.

Bruker-Nano – Tucson, AZ, SEP 2012, SEP 2012 – (100% On-site)

* Localized a very large WPF application during a period of two weeks.
* Implemented a system to easily localize enumerated types.

City of Miami – Miami, FL, JUN 2012, AUG 2012 – (100% Remote)

* Developed a single-page MVC 3 web application that presents real time status for the Fire and Rescue Department.
* Application is used by personnel on fire & rescue vehicles using Panasonic Toughbook computers.
* Employed SignalR to maintain persistent connection between hundreds of browser instances and MVC 3 webapp.

Aperto Software, Inc. – Fort Lauderdale, FL / San Jose, Costa Rica, AUG 2009, JUN 2012 – (15% On-site)

PROJECT1

* Lead a small team of developers in the development of a Project / Ticket Management web application.
* All development done with ASP.NET MVC 4 beta and SQL Server interfaced to controllers via Entity Framework 4.
* Designed the database structure and implemented the models utilized by the MVC controllers.

PROJECT2

* Led team of developers in the implementation of WPF application to analyze cost of product or service.
* Architected next generation MVC 3 application using Entity Framework 4.1 against SQL Server backend database.
* Implemented SQL Server FILESTREAM web services to efficiently store and retrieve large images.

PIMCO, LLC – Los Ángeles, CA, NOV 2011, MAR 2012 – (50% On-site)

* As a senior developer I helped design and implement a client-facing Silverlight 5 application.
* Application submits financial studies including customized portfolios, hedging, risk estimations and optimizations.
* Silverlight 5 application communicates with backend JBoss-based service via RESTful / Xml services.

Bloomberg LP – New York City, NY, FEB 2011, NOV 2011 – (On-site)

* Developed WPF / MVVM applications to integrate MS Office products with existing financial software environment.
* Developed a Hot Key Manager WPF application to consolidate user hot keys with built in Microsoft Office hot keys.
* Developed a WPF application to gather diagnostic information after a system crash, including screen shots.

SmartSignal – Schaumburg, Illinois, SEP 2010, FEB 2011 – (On-site)

* Developed WPF / MVVM / WCF applications to configure software that performs predictive analysis of sensor data.
* Mentored team members that were not as experienced with WPF. This was one of my main functions.
* Alternated between two teams that implemented the two central applications of this system.

Eli Lilly – Indianapolis, Indiana, MAY 2010, SEP 2010 – (On-site)

* I was a member of a team developing WPF core applications to help in the design of molecular clinical trials.
* The WPF / MVVM applications accessed server via RESTful services using WCF syndication support.
* Developed a control to display search results where the search keywords were highlighted.

Overwatch Systems, Inc., – Austin, Texas, OCT 2009, MAY 2010 – (80% On-site)

* Re-architected existing Windows Forms application using WPF, WCF, MVVM, and LINQ
* Implemented globalization and internationalization (I18N) on this application.
* Developed custom WPF controls to support the team's development effort.

## EDUCATION

**Florida International University** - Miami, Florida. BS Degree in Electrical Engineering / Minor in Computer Science.

Project information prior to 2009 is available upon request.