Purnima Naik
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EDUCATION

M.S., Information Systems, Northeastern University, College of Engineering, Boston, MA *Dec 2017*
B.E., Information Technology, Mumbai University, India *2014*

TECHNICAL SKILLS

Languages/Technologies	: JavaScript, Objective C, Java, Kotlin, HTML5, CSS3, SQL, Python
Frameworks/Libraries	: React JS/Native, Node, Redux, Webpack, jQuery, Angular JS, Spring MVC, Hibernate, REST, AJAX
Tools/IDE	: Xcode, Android Studio, Visual Studio, Atom, Eclipse, NetBeans, Spring Tool Suite, Power BI, Git, Jira
Databases	: MySQL, SQL Server, PostgreSQL, Oracle 12c, NoSQL (MongoDB), Core Data, plists
SEO Tools	: Google Analytics, Google Search Console

PROFESSIONAL EXPERIENCE

Lead Mobile & Web Front End Developer, HEVO Power Inc., Brooklyn, NY *October 2018 – present*

- Created a fully functional react-native (JavaScript framework) app from scratch to be the primary tool for conducting charging sessions between an electric/hybrid vehicle and any HEVO Wireless Charger.
- Developed the functionality to start/stop charging a car from the app while being able to monitor vitals such as power input, current supplied, battery percentage and upcoming charging sessions using REST APIs to communicate changes with MySQL database.
- Integrated react-native map to plot EV charging stations (or clusters based on zoom level) with multipart progress circles showing online, in-use and offline chargers and the total count of chargers, in real-time by polling HEVO's REST APIs.
- Accompanied map view with a list of nearby stations (showing time and distance away from the user), autocomplete search functionality using Google's Places API, photos and reviews of a selected charger, ability to 'favorite' a station and reserve a charger for use.
- Generated polyline coordinates using Google's Maps JavaScript API to show the route from the user's location to a selected charger and integrated hand-offs to navigation apps (Google, Waze, Apple) for initiation of turn by turn navigation.
- Detected when a car is in the vicinity of a reserved charger by polling the charger voltages and showed real-time parking alignment to ensure user aligns as closely as possible to the suggested calibration thus ensuring maximum charge.
- Developed an algorithm to calculate the ideal car parking position over a charger and display the same on varying screen sizes by formulating the multiplying coefficient using selected charger's voltage threshold in real-time.
- Streamed images and temperature from a thermal camera to show the view between the floor-mounted charger and underside of the car in the app; if temperature exceeds a preset threshold, the user is alerted, and charging is automatically stopped by the app.
- Made the app robust to seamlessly pick up a charging session where it left off despite spotty internet issues, API failures, incoming calls mid-session or the phone turning off.
- Currently maintaining HEVO's dashboard and website in addition to the mobile app.

iOS Developer, InterPro Solutions, Stoneham, MA *Feb 2018 – October 2018*

- Responsible for updating and maintaining Interpro's mobile application, EZMaxMobile, which was written in Objective-C.
- Enabled work order lookups and enhanced the native map by utilizing the ArcGIS SDK to achieve long press pin-drop, force touch gesture prompted callouts, and to disperse/cluster map pins based on zoom levels.

Front End Developer Co-op, Ahold Delhaize, Boston, MA *Jan 2017 – June 2017*

- Developed native and hybrid applications for mobile devices and the web using Objective C, React JS, React Native, and Redux on rigid deadlines to deliver one or more deployable Proof-Of-Concept apps every 6 weeks.

PROJECTS IN PRODUCTION

CropReco, iOS App (Objective C)

- Developed a native iOS app that recommends crops based on current climatic conditions in order to produce maximum yield.
- Features include weather lookup of any city in the world using Open Weather API and crop search in a plist database.

Hungry Monkey, Android game (Kotlin)

- Developed an Android game in Kotlin where the user helps a monkey reach a bunch of bananas by initiating a jump at the right vertical velocity; game includes 10 levels with increasing difficulty and audio enhancements; designed game graphics using Adobe XD.

two-part-progress-circle, NPM package (React-Native, JSX)

- Created a two-part progress circle in react-native to track the individual progress of two tasks which together contribute to the completion of a main task; features include custom radius, color, ring width, spacers, and text decoration.

Github Language Extractor, Android & iOS App (React-Native, JSX)

- Created an app which helps recruiters and developers alike to retrieve all the languages a user codes in on Github.
- Consumed Github's API to access all the public repositories, fetch the languages used in each repository and curate all the acquired data into measurable language distribution for a given user.

Freesiachem.in (Javascript, HTML, CSS)

- Designed, developed and currently maintaining Freesia Chemical Industry's official website.
- Also responsible for monitoring it's Google Analytics.

NPM package download count website (React JS, JSX, JSON, CSS, Webpack, Babel)

- Used NPM's API endpoints to let users curate the number of downloads a package has for a given time period.

*Visit https://purnimanaik.github.io for active links and more projects.