Purnima Naik

30 Newport Parkway Jersey City New Jersey 07310 **|** (857)-800-4374 **|** Email: naikpurnima9@gmail.com
Portfolio: https://purnimanaik.github.io **|** LinkedIn: https://www.linkedin.com/in/purnima-naik | Github: https://github.com/PurnimaNaik

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, NPM, 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 App Developer, HEVO Power Inc., Brooklyn, NY   *Oct 2018 – present*
- Created a fully functional react-native 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 and stop charging a car from the app while being able to monitor vitals such as power input, current supplied, battery percentage, total cost of charge and upcoming charging sessions.
- 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.
- 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.
- Currently maintaining HEVO's dashboard and website in addition to the mobile app.

iOS Developer, InterPro Solutions, Stoneham, MA   *Feb 2018 – Oct 2018*
- Responsible for updating and maintaining Interpro's mobile application, EZMaxMobile, which was written in Objective-C.
- Enabled work order lookups and display using UITableViewController, UISearchController, and elements of the MapKit Framework.
- Enhanced the native map by utilizing the ArcGIS SDK to achieve long press pin-drop, force touch gesture prompted callouts, and to
- disperse/cluster work orders based on zoom levels.
- Consumed APIs to build interactive features such as switching between different ESRI layers, satellite views, and flyout sidebar to show work orders on the map's graphics layer, plotted based on the client's spatial reference and asset coordinates.
- Integrated Core Animation framework's classes and protocols to create pixel perfect UI designs, graphics, and animations.

Front End Developer Co-op, Ahold Delhaize, Boston, MA   *Jan 2017 – Jun 2017*
- Developed native and hybrid applications for mobile devices and web applications, using Objective C, React JS, React Native, and Redux on rigid deadlines to deliver one or more deployable applications every 6 weeks owing to agile methodologies.
- Created geolocation application that consumed live feeds from multiple beacons and relayed back actions.
- Trusted to lead an inventory level-alert project for the associate data team; designed application architecture and user interface, implemented the frontend functionalities while collaborating with backend developers on API endpoints.
- Worked closely with UI/UX designers to create workflows for seamless human-computer interaction on devices ranging from desktops to kiosks for 4 different apps.

Digital Marketing SEO Analyst, SMG Convonix**,** Mumbai, India   *Jul 2014 – Aug 2015*
- Analyzed keywords, on-page elements, backlinks, and on-site content to devise and implement online marketing strategies.
- Identified trends to provide quantitative business building propositions that improved rankings, leads & conversions.
- Achieved 53% improvement in ranking of 70% of keywords for an income tax e-filing business within 2 weeks.
- Improved site rankings of a commercial blog that was hit by Google's Phantom algorithm update and achieved 45% increase in clicks post administration of reactive steps.

PERSONAL PROJECTS

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.

E-Commerce Automobile Website (Spring MVC, Hibernate, HTML5, CSS3, Bootstrap, Javascript, XML)
- Developed an e-commerce application that lets users browse the car database, add to cart, and checkout with spring web flow integration to secure the entire checkout process beginning from 'add to cart'.
- Integrated cookies and a hidden form field to track user clicks and display customized content.
- Created admin BI dashboard to display sales by brand, best-selling cars and recently sold cars.

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.

High School Database Management & BI (SQL, MySQL, SQLServer, Excel, Toad Data Modeler, PowerBI)
- Designed entity-relationship and dimensional models to organize attendance, discipline, and academic performance data.
- Cleaned and normalized the database in order to formulate optimized SQL queries.
- Developed data cubes and data visualizations for student, parent, teacher, and administrator use cases.

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 and maintaining 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.

Wall Street Journal Mobile Website (React JS, JSX, JSON, CSS, NPM, Webpack, Babel)
- Developed a responsive WSJ mobile website with customizable homepage; users can toggle various genres of news articles on, or off.
- Implemented a carousel using props to manipulate the state of current article component, thereby allowing users to skim article summary.

Freshman Orientation Guide (HTML5, CSS3, jQuery, Javascript, Bootstrap, Angular JS, AJAX, PHP, Canvas JS)
- Created a website to provide bank and mobile plan information to incoming Northeastern University students.
- Developed functionalities such as real-time profile simulation, bank selection tool, pagination, graphs, animations, and email signup.

Enterprise Management Application (JAVA, Swing, MySQL)
- Designed and developed a JAVA application for chemical companies, featuring 7 different use cases- admin (business head), raw
- material supplier, factory admin, chemist, factory worker, customer and delivery agent.
- Using singleton pattern, implemented the concept of user logins, work requests (e.g. customer's request to admin for a new batch of
- chemicals) and work queues (e.g. factory admin's request to factory worker, comprising all customer requests) to manage the demand
- and supply of raw materials and finished products.
- Simulated the working of sensors in order to record temperature and display alerts to factory admin if the temperature crosses a preset threshold.

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