Vir Thakor

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SKILLS

Programming:	C++, Python, PHP, Java, JavaScript, jQuery, Web Development
Databases	SQL, MySQL, PostgreSQL, DynamoDB, MongoDB, Oracle
Data	Python, Web Scraping, Octave/Matlab, R
Libraries	Laravel (PHP), LAMP, MEAN, Node.js, D3.js, Bootstrap, Google Maps API, Angular.js
Tools	Git, Agile/Scrum, AWS, MySQL Workbench, Axure, Jira, Confluence

EXPERIENCE

Customer Value Partners — *Software Development Engineer*
July 2017 - Present: Centers for Medicare & Medicaid Services & Pixt Fashion

CMS: Full-stack development of web pages for authorized users to access and edit referential data within the database. Built with Laravel PHP framework in an MVC pattern to process authorized HTTP requests. Lead on Section 508 Compliance testing. Using the following: PHP, MySQL Workbench, Web development tools, AWS Deployment, Axure.

Pixt: Fashion startup using Machine Learning to compare articles of clothing. Performing data scraping in Python and development of maintenance site for brand use to manage inventories. UI with jQuery and Datatables.js. User authorization with Cognito. Server side development with AWS tools including: Lambda functions, API Gateway endpoints for requests, S3, RDS, DynamoDB.

American Express — *Software Development Intern*
2016: Global Authorizations Network Team

Created internal Web App to manage uploaded testing information using LAMP stack. Worked on a Proof of Concept project analyzing the Key Management System and feasibility of implementing a new method for key rotations within the DB manager through a centrally managed implementation.

Department of Energy — *Full-stack Development Intern*
2015: Energy Information Administration

Worked with team to develop web app that showed the flow of commodities by volume via sea routes on an interactive global map. Wrote procedures for user to generate customizable queries of trade routes to display, and developed visualization of trade routes. Implemented modified Dijkstra's Algorithm for countries, ports, and choke points. Project built with Oracle procedures, SQL, D3.js, HTML/CSS, jQuery.

EDUCATION

University of California, Los Angeles — *BS in Computer Science*
2013 - 2017

Coursera — *Machine Learning*
2018

SELECTED COURSEWORK

Data Structures (C++), Web Applications, Intro to Data Mining, Software Engineering, Database Systems, Computer Network Fundamentals, Intro to Artificial Intelligence, Intro to Algorithms and Complexity, Mathematical Modeling

PROJECTS

Club Connect — *Web/Mobile App*
Team project for school organizations to streamline checking-in attendees to events using a mobile app that scans student IDs. Each phone scan loads data from an organization member's profile and is used to create attendance statistics through a web app. Built on Swift with website made with Node.js & Kinvey database.

Object Recognition Using Training Dataset — *Python NumPy, Pandas*
Kaggle competition using Python to perform accurate classifications on test data using a 40000 sample training dataset. Data optimizations and a Majority algorithm based around a Logistic Regression comparing multiple algorithms resulted in a test accuracy of 79.47%.

Trip Cost Splitter — *Web App*
Allows users to simplify splitting purchases between people involved in a group trip. Multiple purchases are entered that were made by individuals and outputs the amount of money each person owes another. JavaScript, Node.js, jQuery.

Data Visualization: Use D3 and statistics to show interpretations of large datasets.

Chrome Extension: New Tab task list extension

Branching Story: User can build a playable branching story with clickable options

Bubble Text Visualizer: Parse a text block into a dynamic word cloud