Vir Thakor

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SUMMARY

Inquisitive and adaptive software developer who helps users visualize and understand data. Specialty in web technology, data management and data analysis. Passionate about creating cutting edge technology that improves users' lives as a software developer

SKILLS

Languages:
C++, Python, PHP, JS (ES6), SQL, jQuery, Java, Bash Scripting

Concepts:
OOP, MVC Pattern, Serverless Architecture, Unit Testing, Agile/Scrum, UI/UX, UML

Data:
Python, SQL, RDS, PostgreSQL, MySQL, DynamoDB, Octave/Matlab, MongoDB, R

Libraries & API:
RESTful API, React.js, D3.js, Google Maps API, Node.js, Angular.js, Datatables.js, Selenium, DJango

Tools:
Amazon Web Services, Github, NPM, MySQL Workbench, Jira, Confluence, Jenkins, JAWS

Clearance
Confidential

SELECTED COURSEWORK

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

EXPERIENCE

Customer Value Partners — *Software Development Engineer* July 2017 — Present

Pixt Fashion:

- Developing for fashion startup using Machine Learning on clothing images to enable price comparison of similar products across brands.
- Built CRUD inventory management site for clients to regulate their inventory.
- Maintained and updated serverless backend and RESTful API using AWS
- Created API for clients to incorporate proprietary product image search into their websites.
- Designed subscription billing functionality and registration for client stores through Stripe.
- Managed the user directory and authorization with AWS Cognito.
- AWS Lambda, API Gateway, RDS, EC2, VPC, IAM, Cognito, S3, SNS, Cloudwatch, DynamoDB
- jQuery, Datatables.js, Gitlab, PostgreSQL

Centers for Medicare & Medicaid Services (CMS):

- Developed platform for authorized CMS and state officers to share and analyze Medicaid programs' data.
- Reconstructed workflows to enhance and improve UI/UX in response to Acceptance Testing.
- Led Section 508 Accessibility testing and achieved 100% compliance for major release.
- Utilized LAMP stack, PHP Laravel, Unit Testing, MySQL, JS, Axure, JAWS, and Git

American Express — *Software Development Intern* June — Aug. 2016

Global Authorizations Network Team in Phoenix, AZ

- Worked on Proof of Concept project analyzing the Key Management System and feasibility of implementing key rotations within DB manager through centrally managed implementation.
- Researched options for encryption key lifecycle: generation, exchange, storage, use, shredding and replacement
- Created internal Web App to manage uploaded testing information using LAMP stack.

Department of Energy, — *Fullstack Development Intern* June — Sept. 2015

Energy Information Administration in Washington, D.C.

- Collaborated with a team to develop a Web App that visualized 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 based on commodity, source and destination. Then, developed the corresponding route visualizations for ratios of goods imported and exported.
- Implemented modified Dijkstra's Algorithm to create interactive and animated navigation between cities, ports, and choke points of goods.
- Utilized D3.js, HTML/CSS, jQuery, Oracle procedures, SQL.

PROJECTS

Club Connect — *Web/Mobile App*

- Worked with team on platform for school organizations to streamline checking-in attendees to events using a mobile app that scans student IDs and loads members' profile.
- Developed management tool to acquire and visualize attendance statistics through a web app.
- Built on Swift and website with Node.js & Kinvey database.

Data Classification — *Python NumPy, Pandas*

- Competed in Kaggle competition using Python to perform classifications on data from 40000 sample training dataset.
- Utilized 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*

- Created Web Application that simplifies and streamlines splitting purchases between a group of people to output the amount each person owes another.
- Built using JavaScript, Node.js, jQuery.

Random World Generator: Used Noise functions and graph theory (including Voronoi diagram, centroids and Delaunay triangulation) to build a map with elevation and biomes.

Branching Story Game: Built platform for user to create a playable branching story with clickable options using jQuery

Bubble Text Visualizer: Parse a text block into a dynamic word cloud. Built using JavaScript and D3.js

Network Visualization: UI to create a web of node connections with optional descriptions using D3.js

EDUCATION

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