Thuc Nguyen

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Work Experience

Solutions Software Engineer, Fulgent Genetics, Santa Anita CA   **Feb 2021 - Jun 2022**
- Designed and implemented front- and backend components of Sunburst Curation Cloud, an application within the Enterprise solution, alongside supervisors and team leads using Vue.js, Node.js, and Oracle.
- Helped develop the Back-to-School system, an online platform allowing students and employees to upload COVID-19 vaccine records and employers to track compliance, which also served over 1000 schools.
- Coordinated efforts across departments to resolve sample extraction bottlenecks, integrate new panels, improve data entry workflows, and clarify departmental roles for auditing.
- Wrote and organized test cases (unit and integration tests) for the Regression System, an internal testing framework for FLIMS, the primary management system.

Frontend Developer at Spider Lab Research, University of California - Irvine, Irvine CA   **Jun 2020 - Sep 2020**
- Provided data visualization of source code and test coverage in the form of a minimap using D3 with React.
- Integrated access of database coverage information from the SpiderSense-worker with user-initiated events.
- Computed suspiciousness scores from selected test suites to assist in fault localization.

Education

University of California - Irvine, Irvine, CA
Master of Software Engineering, 2020
San Diego State University, San Diego, CA
Certificate in Web and Mobile Applications Development, 2018
University of California - San Diego, San Diego, CA
B.S. in Human Biology, 2017

Skills

Languages: Javascript, Java, SQL, Python, HTML, CSS/SCSS
Frameworks/Libraries: Vue.js, React.js, jQuery, D3, Axios, Express.js, Flask, Django, Discord.js
Other Technologies: Node.js, MySQL, SQLite, Redis, Firebase, AWS (EC2), Elasticsearch, Kibana, Jira, Git, PM2

Projects

Gpus4All   **Mar 2022 - Current**
A prototype of a fictitious, online e-commerce application that sells gpus.
- Adopts the microservices pattern, establishes an API gateway and service registry, and scales vertically via PM2.
- Utilizes Vue.js on the frontend, Node.js and Express.js on the backend, MySQL for data persistence, and Redis for caching.

Irelia Bot   **Dec 2020 - Jan 2021**
A Discord bot that helps users build teams for custom game modes for the multiplayer online game, League of Legends.
- Offers users the ability to add, remove, and list players on a team via commands built using Discord.js.
- Builds teams in various custom game modes, extracting data from Riot's API, displaying matchmaking details on Canvas.

Financial Modeling and Visualizations Tool (Capstone Project)   **Sep 2020 - Dec 2020**
A web application built on React.js, Flask, Elasticsearch, and Kibana to assist UCI's Stem Cell Research Center in visualizing expenses.
- Created an interface for uploading files and visualizing financial data using embedded Kibana dashboards
- Built an API using Flask for parsing, extraction, and writing of data to Elasticsearch database in Agile under a project sponsor