Gia **Thuan** Vu

Software Engineer · Web Developer

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Summary

I am an upcoming computer science undergraduate offering a strong foundation in web development and database management systems. I have an innate ability to quickly learn new technologies and unfarmiliar tech stacks. I am an adept team player eager to contribute to and learn from industry-leading engineering teams. I am experienced in analysis, development, design and testing of web applications with modern technologies. I am extremely interested in developing robust and performant progressive web applications that have extensive societal impact.

Technologies

Programming	python C++ C JS Java
Web	HTML5 CSS3 BOOTSTRAP jQuery express node Flask PostgreSQL React
Development Tools	VS Code Vim git ssh slack docker

Education

University of California, Riverside   *Riverside, CA*
B.Sc. in Computer Science   *Aug, 2020 - Current*

- CS GPA: 4:00
- UCR Achievement Scholarship for transfers ($1,500 per quarter)
  Relevant Coursework
    - Database Management Systems
    - Design of Operating Systems
    - Compiler Design
    - Intro. to AI

Personal Projects

ExtraMile Website   ⬚
Accident Data CRUD App   *Stack |* ex ⚛ JS 🐍

- Designed and developed a **CRUD** web application that processed over **5,000,000** data points, with 7 data visualization features
- Designed and implemented a backend api using **express.js** as a microservice to serve processed json to the frontend
- Wrote python scripts to wrangle **5Gb** of data to reduce initial load on server to **300Mb**
- Designed and implemented a custom indexing and caching data structure using javascript's dictionaries that improved load time of entire data set from 32 seconds to under **5 seconds**, and improve querying time from 3s to under a second
- Wrote internal documentation for design choices and tutorial for internal tools

Automobile Database Interface   ⬚
Database Management System   *Stack |* ☕ 🐘

- Designed ERD diagrams to improve developement process
- Designed and implemented GUI using **JavaSwing** to interact with **PostgresSQL** database
- Designed and wrote database schema in **SQL** for PostgreSQL database with advanced insertion triggers

Shopee Delivery HeatMap   ⬚
Data Visualizer   *Stack |* ex JS B ⬚ 🐍

- Designed, developed and deployed a heat map data visualization web app using the MVC design pattern
- Wrote python backend to parse and manage uploaded data sheets into json for the frontend
- Designed and developed frontend using **bootstrap** and **jquery.js** to create an interative web application