Daniel Zelfo

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EDUCATION

University of California Irvine   **GPA:** 3.68/4.0
Bachelor of Science in Computer Science   *October 2020 – June 2022*

Mt. San Antonio College   **GPA:** 3.91/4.0
Associate's of Science in Mathematics   *August 2018 – June 2020*

Relevant coursework: Intro Software Engineering, Intro Computer Organization, Computer Networks, Design & Analysis of Algorithms, Machine/data Mining, Intro Data Management, Principles Operating Systems, Intro Optimization, Principles System Design, Information Retrieval, Project in Data Structures and Algorithms, Project in Databases and Web Applications

EXPERIENCE

Software Engineer Intern   Brea, CA
Garmin   *June 2021 – September 2021*

- I developed HMI and audio software to add features to a Garmin automotive infotainment product using Java, Kotlin, C, and the Android software stack. I worked on live product hardware for testing.
- I made demo videos for associates at BMW and presented live demos of the software that I developed.

Software Engineer   Chino, CA
Akera LLC   *January 2021 – Present*

- I develop software using Python, C#, C++ to increase workplace productivity of client businesses.
- I design/develop websites for clients using HTML/CSS/JavaScript/PHP.
- I provide IT services including computer builds and repairs.

PROJECTS

FabFlix ⬈ | *Java, JavaScript*   *March 2022 – June 2022*

- FabFlix is a web-based e-commerce system. It allows customers to search for and order movies. FabFlix uses a single-page design and microservices.
- The backend services are built using the Spring Boot Framework in Java.
- The frontend includes a web app built with React and mobile app built with React Native.

Spidey Search ⬈ | *Python, JavaScript, SCSS*   *March 2022 – June 2022*

- Spidey Search is a search engine built from the ground up and able to handle hundreds of thousands of documents or web pages. It consists of a crawler, an indexer, and a web based search interface built with React.
- The backend is a REST API built with the Flask framework in Python and uses the index files build using the crawler and indexer. Several heuristics are used to minimize query time to below 100ms for a corpus of 55k documents.

AstraMonitor / AstraBot ⬈ | *Python*   *January 2020 – May 2020*

- AstraMonitor is a discord bot that notifies users when a product restocks on Amazon/Bestbuy/Newegg/Walmart.
- In order to maximize performance as a large number of products are monitored for restocks, AstraMonitor concurrently manages a pool of threads executing parallel tasks.
- AstraBot is a discord bot that mentions roles and forwards messages to appropriate channels based on restocks.

More Projects ⬈

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, Java, C, Assembly, Kotlin, PHP, HTML/CSS, SQL, NoSQL, R
Frameworks / Libraries: React, Node.js, Flask, Spring Boot, Selenium, JavaFX, jQuery, pandas, NumPy, Matplotlib
Developer Tools: Git, MySQL, Postman, cPanel, GCP, VS Code, IntelliJ, Android Studio