

Gavin Poley

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Education

University of California Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science

June 2023

Course Work: Intro to Software Engineering, Data Structures & Algorithms, Web Applications, Principles of Computer Systems Design, Database Systems, Parallel & Concurrent Programming, Computer Graphics

Skills

Languages: JavaScript, Python, C, C++, SQL, HTML, CSS

Frameworks: React.js, Node.js, Express.js, REST, Bootstrap, Material-UI, WebGL

Technology/Tools: PostgreSQL, MySQL, Git, Docker, Unix, Bash, Agile Software Development, Scrum

Experience

Front-End Software Developer

June 2023 – Present

SpaceLab

Remote, CA

- Implemented a donation page with PayPal API integration, resulting in donations being made directly through the web page
- Redesigned existing front end components in a teams of 2, enhancing the web page design, user interactivity, and user experience
- Incorporated keyboard controls and alt tags for components, ensuring compliance with ADA standards

Projects

FlixForum | *JavaScript, React, HTML, Node, MySQL, Netflix API*

[Link](#)

- Developed a full stack online forum web application for 100+ users to search and discuss Netflix shows
- Crafted front end with Netflix API integration using React to display shows, forum pages, and discussion posts, facilitating seamless navigation
- Deployed backend with Node and MySQL, storing user login info and 1000+ discussion posts
- Performed robust user authentication utilizing hashed and salted passwords, allowing registered users to effortlessly login and seamlessly create listings
- Coordinated and led 5-member Scrum team to plan features, document project progress, and conduct sessions to debug and optimize code

Multi-Threaded HTTP Server | *C, Linux, Git*

[Link](#)

- Built a C program to handle 100+ HTTP network requests using threads over TCP
- Deployed 8+ worker threads to process requests distributed from a work queue protected by a mutex, enabling the server to be multi-threaded
- Implemented file locking, allowing atomic operations for concurrent readers and serialized writes, increasing the amount of requests processed by 30%

Mobile Marketplace | *JavaScript, React, HTML, Node, Express.js, PostgreSQL*

[Link](#)

- Developed a mobile first, full stack web application serving as a mobile app marketplace
- Designed front end using React and Material UI displaying user listings in a mobile friendly design
- Incorporated a REST API using Node, Express, and PostgreSQL, supporting 100+ users, filters, categories, and item listings
- Built a secure login system with hashed and salted passwords, permitting registered users to create listings
- Conducted end to end testing with unit tests to assert 100% code coverage and component functionality