JOSHUA REVILLA

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EDUCATION

University of California, Santa Cruz *Expected June 2023*
B.A. in Computer Science
Overall GPA: 3.93

Relevant Coursework:

Computer Systems and C programming   Data Structures and Algorithms   Database Systems
Advanced Networking   Computer System Design   Data Programming and Visualization
Software Engineering   Distributed Systems   Parallel Programming

PROJECTS

Water Footprint:
- Implemented a data visualization project using D3.js to effectively display and analyze complex data sets
- Collaborated with cross-functional team members to gather data and improve the user experience of the visualization
- Utilized version control software, such as Git, to manage the development process and collaborate with team members
- Utilized skills in JavaScript, HTML, and CSS to create dynamic and responsive visualizations

HTTP Server:
- Implemented a multi-threaded HTTP server in C, capable of handling multiple simultaneous requests and improving overall performance and scalability
- Utilized POSIX threads and synchronization primitives for handling of concurrent requests
- Experience with network programming, Sockets, and HTTP protocol
- Implemented HTTP parsing and handling using Regex and the C programming language

EZ Captions:
- Developed and deployed a React-based caption application, allowing users to create and edit captions for videos
- Showed ability to work with modern web technology stack, React and its related libraries to provide a meaningful and intuitive user experience
- Incorporated real-time video playback and caption/subtitle synchronization to ensure accurate timing

Adventure SQL Game
- Gained strong knowledge of SQL and database design principles for creating and managing application data
- Demonstrated familiarity with PostgreSQL stored procedures, triggers, and advanced queries for application logic
- Experience in optimizing database performance and scalability using indexing
- Familiarity with libpq functions for executing SQL commands, managing connections and transactions, and retrieving query results

TECHNICAL STRENGTHS

Programming Languages: C, C++, Python, JavaScript, React.js, SQL, Bash, HTML, CSS, Rust, Java
Software and Tools: UNIX, git, D3.js, Vim, VS Code, Trello, LaTeX, Selenium API, Node.js, Cargo
Technologies: TCP/IP Protocol Stack, Client-Server Architecture, Parallel Programming

VOLUNTEER EXPERIENCE

Santa Theresa Little League April 2016 - June 2017
Assistant Coach *San Jose, CA*

· Demonstrated leadership and responsibility by organizing and coordinating practices and games for a Little League team
· Displayed skills in problem solving, conflict resolution, teamwork, and decision-making