Calder Wilson

Software Engineer

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Technical Skills

Languages: Python, C, C++, Java, JavaScript, TypeScript, SQL, HTML, CSS, Bash
Tools/Frameworks: AWS, Git, CI/CD, Jira, Unix, GraphQL, Spring, Spark, Node.js, Express.js, REST
Libraries: React, Pandas, Tensorflow, Mockito, JUnit, Handlebars.js, React Native

Professional Experience

Amazon Sept 2022 - Dec 2022
Software Development Engineer Intern *Seattle, WA*

- Designed and delivered innovative product that positively impacted millions of customers, currently in active use
- Developed analytical AWS Batch job, achieving 70% decrease in time spent detecting performance drops and outages
- Pioneered the creation of a Java email-sending service and HTML formatter that streamlined data communication
- Ensured the seamless integration of my product into the codebase by writing comprehensive unit and end-to-end tests
- Completed stretch goal of building complementary UI that allows scheduling of custom jobs for more granular results

Northwestern Mutual June 2022 - Aug 2022
Software Engineer Intern *Milwaukee, WI*

- Enhanced GraphQL API consumer experience by developing an accessible React UI to preview client information
- Slashed MySQL queries by 50% for two separate Spring requests, boosting efficiency and performance
- Minimized AWS costs by optimizing Kubernetes pods using insightful analysis of Kibana logs
- Improved my department's overall code quality by 40% through implementation of SonarQube in 70 GitLab pipelines

Projects

Spotify Match
Accomplished: Designed a full-stack mobile application; collaborated with team to implement a working product

- Developed in Agile team environment, utilizing SCRUM software engineering practices to achieve goals
- Set up PostgreSQL database using AWS RDS and oversaw management of users and schemas
- Built frontend with React Native and directed requests to Express.js REST API to interact with DB

HTTP Server
Accomplished: Utilized an iterative design concept to develop project based on predetermined objectives

- Created fully functional HTTP server in C, supporting GET, PUT, and custom APPEND requests
- Implemented multi-threading, enabling parallel processing of requests to save time and elevate server efficiency
- Ensured server retained read-write atomicity and non-blocking I/O, boosting consistency and reliability

Education

University of California, Santa Cruz Sept 2019 - June 2023
Bachelor of Science (B.S.) in Computer Science *Santa Cruz, CA*

- **Achievements:** Graduated with Honors in Computer Science, Dean's List Scholar
- **Minor:** Linguistics
- **Relevant Courses:** Data Structures, Algorithms, Machine Learning, NLP, AI, Operating Systems, Databases
- **Extracurriculars:** Director of Machine Learning Team for NeuroTechSC
    - Led a group of 5 student engineers to research, build, and deploy ML models for neuroscience products
    - Collaborated with directors and officers to design project architectures and organize club management