

Derrick Lee

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EDUCATION	B.S., Computer Science Santa Clara University Relevant Coursework: <ul style="list-style-type: none">- Object Oriented Programming (C++)- Data Structures (C++)- Operating Systems (C/Rust)- Theory of Automata and Formal Languages- Computer Networks (C)- Database Systems (Oracle SQL/PHP)- Theory of Algorithms- Programming Languages (Python/Java/Scala)- Computer Security- Design Management of Software	December 2019
EXPERIENCE	Celo , Software Engineering Intern <ul style="list-style-type: none">- On the applications team primarily working with TypeScript, React Native, and Redux.- Implemented social backup and recovery in the mobile wallet to keep user mnemonic seed phrases safe with the help of other users. Provides users with an option to split their mnemonic phrase to keep safe with friends. Open Source Developer <ul style="list-style-type: none">- Fixed incomplete features, improved and clarified code examples and documentation for serenity, a Rust library for interacting with the chat and VoIP platform Discord's API.	June 2019 - September 2019 January 2018 - Present
RELEVANT SKILLS	Languages <ul style="list-style-type: none">- TypeScript, JavaScript, Rust, C, C++, Python, HTML5, CSS, PHP, SQL, Bash Related Technologies <ul style="list-style-type: none">- Git, React, React Native, Redux, Redux Saga, Node.js, GraphQL, PostgreSQL	
PROJECTS	sushii-bot (14,000+ lines of code) <ul style="list-style-type: none">- Chat bot for Discord with a ranking system, activity tracker, moderation tools and more with over 64,000 total users.- Written in Rust with a PostgreSQL database, diesel-rs, and connection pooling with r2d2-diesel.- Uses a TypeScript web server with Koa and Puppeteer to generate images from HTML.- Paired a website with user leaderboards and statistics made with Node.js, Next.js, React, Koa, Apollo server and client for GraphQL endpoints, and Join Monster for batch data fetching. Operating System Simulations (5,000+ lines of code) <ul style="list-style-type: none">- Runs sequential and random disk reads with C, determines time differences and possible causes based on both physical and OS aspects. Programs and set up executed with Bash scripts.- Multi threaded simulation written in Rust of different memory page replacement algorithms with given page requests and a range of memory sizes. Data visualized with plots made in R.- Benchmarks in Rust to determine the overhead of synchronization primitives (Mutex) and lock contention.	December 2017 – January 2019 April 2018 – June 2018