Derrick Lee

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EDUCATION

Santa Clara University   **September 2016 - June 2020 (Expected)**
B.S. Computer Science (Math)
Relevant Coursework:

- Intro to Computer Science
- Object Oriented Programming
- Data Structures
- Operating Systems

RELEVANT SKILLS

Languages: Rust, JavaScript, C/C++, Python, HTML5, CSS, ARM Assembly, SQL, Bash
Related Technologies: Git, Node.js, Koa, Apollo, GraphQL, PostgreSQL, React, Express, Next.js, Vue.js

PROJECTS

sushii-bot   **December 2017 - Present**

- Chat bot with a ranking system, activity tracker, moderation tools and more with 44,000+ total users.
- Written in **Rust** with a **PostgreSQL** database, **diesel-rs**, and connection pooling with **r2d2-diesel**.
- Paired a website with user leaderboards and statistics made with **Next.js**, **React**, **Koa**, **Apollo** server and client for **GraphQL** endpoints, and **Join Monster** for batch data fetching.

Operating System Simulations   **April 2018 - June 2018**

- Runs sequential and random disk reads with **C**, determines time differences and possible causes based on both physical and OS aspects.
- 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 with **R**.
- Benchmarks in **Rust** to determine overhead of synchronization primitives (Mutex) and lock contention.

vlive-rs   **April 2018 - May 2018**

- **Rust** library for livestreaming platform VLive's API to fetch channel and video data.
- Implemented on the **Hyper** client with Futures and **Reqwest** for a synchronous API.