

# Derrick Lee

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## EDUCATION

**Santa Clara University**

B.S. Computer Science (Math)

Relevant Coursework:

- Object Oriented Programming (C++)
- Data Structures (C++)
- Operating Systems (C/Rust)
- Theory of Automata and Formal Languages (in progress)

**September 2016 - June 2020 (Expected)**

## 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.