

# Derrick Lee

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## EDUCATION

**Santa Clara University**

B.S. Computer Science (Math)

Relevant Coursework:

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

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

## RELEVANT SKILLS

**Languages:** JavaScript, Rust, Python, C/C++, HTML5, CSS, ARM Assembly, SQL, Bash

**Related Technologies:** 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 22,000+ 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.
- Website made with **Next.js**, **React**, **Koa**, **Apollo** server and client for **GraphQL** endpoints, and **Join Monster** for batch data fetching.

**vlive-rs**

**April 2018 - Present**

- **Rust** library for livestreaming platform VLive's API.
- Implemented on the **Hyper** client with Futures.

**nuxt-yt**

**June 2017 - September 2017**

- Web app that automatically updates, aggregates, and tags YouTube videos based on certain criteria utilizing the YouTube Data API, with a search and video statistics.
- Uses **Node.js**, **Express** web framework, **Nuxt.js** for server side UI rendering, **Vue.js** for frontend, and **SQLite** for storing video data.

**headphone-recommender**

**June 2017 - July 2017**

- Web app that analyzes MP3 files and recommends 100+ headphones based on price, form factor, and music sound signature.
- Uses **Python** and the **Flask** web framework.

**gifgif**

**December 2016**

- Application that trims, crops, and converts videos to gifs.
- Uses **Electron**, **Node.js** and FFmpeg.

## AWARDS

**City of Cupertino "Solve the Streets" Challenge Winner**

**January 2016**

- Analyzed the traffic situation in the Silicon Valley and created a video addressing local traffic problems.
- Proposed realistic and effective ways of improving transportation.
- Video edited and animated with Adobe After Effects.