

Derrick Lee

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Education

Santa Clara University

9/16 - 6/20 (exp)

B.S. Computer Science

Relevant Coursework:

- Intro to Computer Science (C++)
- Data Structures (C++)
- Object Oriented Programming (C++)
- Intro to Embedded Systems (ARM Assembly)

Skills

Languages JavaScript, Node.js, Python, C++, HTML5, CSS, Rust, ARM Assembly, SQL

Libraries Vue.js, Nuxt.js, jQuery

Programs Adobe After Effects, Adobe Photoshop

Projects

Source code for projects can be found at github.com/drkleee3

[discord-sbot2](#)

12/17

A Discord chat bot written in **Rust** utilizing a **PostgreSQL** database, **diesel** for ORM, and database connection pooling with **r2d2-diesel**. Includes various features such as a level system and moderation tools.

[discord-custom-commands](#)

10/17

A custom commands chat bot for Discord that allows users to create their own commands. Written in **Rust** and uses a **SQLite** database for storing data.

[nuxt-yt](#)

8/17

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

[headphone-recommender](#)

7/17

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

[vlive-dl](#)

7/17

Command line tool that assists with downloading and merging videos & subtitles to a MKV file. Uses **Node.js**, **FFmpeg**, and **Commander**.

[GifGif](#)

12/16

Electron application that trims, crops, and converts videos to gifs with **FFmpeg**. Uses **JavaScript** and **Node.js**, provides an HTML5 video preview and frame by frame seeking.

Awards

[City of Cupertino "Solve the Streets" Challenge winner](#)

1/16

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