David Luo

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https://dsluo.me
github://dsluo
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Academics

Unviversity of Georgia, Bachelors of Science in Computer Science — est. grad. Spring 2019
GPA: 3.74 — Dean's List — Zell Miller Scholarship Recipient — 2016-2018

Software Development Skills

- **Languages** — Python, Java, C/C++, Kotlin, Shell Scripts
- **Operating Systems** — Linux/Unix, Windows
- **Development Tools** — Version Control (Git/Github), Jetbrains IDEs, Javadoc, GDB, Regular Expressions
- **Databases** — PostgerSQL, SQLite, MongoDB
- Experience in Android Development.

Projects

SoundBert

https://github.com/davidsluo/SoundBert

- A chat bot written in Python3 for the Discord voice and text chat service that plays sounds in voice channels on command.
- Uses the discord.py library to interact with the Discord API, asyncio for concurrency, and a PostgreSQL database to store metadata about each sound.

Sorting Gifs

https://github.com/davidsluo/SortingGifs

- Visually demonstrates how various sorting algorithms work by sorting arrays of colors.
- Used Python Imaging Library to generate gifs.

Frogify

- Hackathon project developed with a team of four that allowed an audience to vote on the order of a playlist.
- Backend written in Python, using the Django framework.
- Interacted with Spotify API through OAuth2 using requests library.

Work Experience

Software Development Intern—*Hunter Liberty Corporation — Acworth, GA* — Summer 2017

- Developed an Android app that allowed configuration of refridgeration controllers over a serial connection using the Modbus-ASCII protocol.
- App enabled users to view and program operational variables on controllers without having to carry cumbersome laptops into industrial refridgerators.

Coursework

Computer Networks — Spring 2018

- Developed a basic HTTP server, DNS client, and simple file transfer protocol.

Algorithms — Spring 2018
Computer Architecture — Spring 2018
Data Structures — Fall 2017

- Implemented common data structures, such as Linked Lists and Binary Search Trees, as well as various sorting algorithms, like Merge Sort and Quick Sort.

Theory of Computation — Summer 2017
Discrete Mathematics — Spring 2017
Systems Programming — Spring 2017

- Created several common Unix command line utilties in C++, including an ncurses-based text editor, tools for file manipulation, and a shell that featured job control.

Software Development — Fall 2016