

Brian Le

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Education

University of California, Irvine

Sep. 2021 - Jun. 2025

- B.S Computer Science // Expected Graduation: Spring 2025 // Sophomore
- GPA: 3.91
- Relevant Coursework:
Python Intermediate Programming, Discrete Mathematics, Computer Organization, Data Structures and Implementation in C++, User Interaction Software, Software Design, Linear Algebra

Granada Hills Charter Highschool

Aug. 2017 - Jun. 2021

- Weighted GPA: 4.39

Projects

Excuse My Zot | JavaScript, Python, Flask, React, Docker, Google Cloud

- Designed a project for an inclusive-centered team project for a Hackathon where we used **React** and **Flask** to build a web application to send users excuses to get out of a bad situation.
- Stored and managed data in a bucket database to implement a **REST API**.
- Utilized **Google Cloud's APIs** and integrated **Docker** container to build to deploy a web application through **Google Cloud**.

ICS Search Engine | Python, Flask

- Scraped over 80,000 UCI ICS's websites and reduced similar or redundant websites by implementing a DOM tree heuristic and cosine similarity.
- Reduce query time to under 100ms by filtering different web pages into separate databases and using a TF-IDF algorithm to return more relevant searches.

Sleep Tracking | Angular, Ionic, Typescript, Cordova, Firebase

- Developed and designed a user-friendly web and mobile application using **Angular** and **Ionic** frameworks.
- Employed Apache **Cordova** to implement native IOS and Android features and Firebase to retrieve user data.

Zot Vote | C, Ubuntu, Linux

- Implemented a multi-threading server that spawns a thread for each connected client connection.
- Reduce traffic of processing threads by implementing mutexes and semaphores.

Work Experience

SurgeAI

Mar. 2022 - Jul. 2022

Python Developer

- Build upon an AI algorithm in solving coding problems, analyzing elements of a picture, and auto-generated stories using Python and Matplotlib.
- Simplified automation process on written and generated code to optimize and analyze the performance of the AI.

Mathnasium

Jun. 2022 - Jun 2023

STEM Instructor

- Improve the confidence of students by assisting students at a summer boot camp to prepare and master higher-level math.
- Enhance the effectiveness of lessons by managing and developing interactive programs and activities.

Leadership Experience

ICS Student Council

Sep. 2020 - Current

Corporate

- Oversaw member engagement and encouraged new members to engage in community projects.
- Increased outreach among other members outside of ICS and increase corporate sponsorship

Skills

Languages: C++, C, SQL, Python, JavaScript

Technologies: Ubuntu/Linux, Docker, Flask, React, Angular, Ionic, AWS, Google Cloud, MySQL