

David Xiu

Phone: (925) 389 - 6005

Email: david.xiu@gmail.com

[dxiuu.github.io](https://github.com/dxiuu)

www.linkedin.com/in/davidxiu

<https://github.com/dxiuu>

EXPERIENCE

- **Fortinet** Sunnyvale, CA
Software Development Intern June 2022 - October 2022
 - Worked closely on a team with Senior IOS developers and Designers to develop an IOS application using MVC design patterns and SwiftUI.
 - Created and thoroughly tested over 15 UI views to help streamline IOS to Fortinet product connectivity.
 - Utilized Swift frameworks to establish a secure Bluetooth connection, and transfer and receive data from Fortinet products.
- **Data Structures and Algorithms Learning Assistant** Irvine, CA
Learning Assistant / Tutor September 2022 - Present
 - Engaged with over 300 undergraduate students during lecture and lab help hours to ensure proper understanding of algorithm analysis and data structures.
 - Organized test reviews for 100 students to further support the students before exams.

PROJECTS

- **Astro Checker**
 - VenusHacks 2022 - Best NLP Hack Winner
 - Fixed issues in Assembly AI (speech to text) transcriptions, filling in gaps created by audio artifacts.
 - Developed a responsive website with python backend frameworks such as Flask and HTML/CSS for frontend.
- **Online Cloud Storage Application**
 - Designed an application in C which allows clients to connect to a server and users are then able to upload and download files from the online cloud storage.
 - Utilized TCP Sockets to form connections between clients and servers.
 - Integrated multithreading to allow for multiple client connections at once.
- **Formula One Statistics Discord Bot**
 - Leveraged Discord API to deploy a bot that provides users with Formula One statistics.
 - Utilized Python libraries such as BeautifulSoup and Requests to web scrape data from the official Formula One website.
 - Used libraries such as Pandas to process and clean data.

EDUCATION

- **University of California - Irvine, Irvine, California (2020 - Present)**
 - *Pursuing a Bachelor's Degree In Computer Science*
 - *GPA 3.708 / 4.0*
- **Dougherty Valley High School, San Ramon, California (2016 - 2020)**
 - *High School Diploma: June 2020*

SKILL SET

- **Languages:** C/C++, Python, Java, MIPS Assembly, Swift / SwiftUI
- **Developer Tools:** VS Code, Pycharm, Visual Studios, XCode
- **Technologies / Frameworks:** Linux, Git, Flask, AWS
- **Coursework:**
 - Computer Architecture
 - Design and Analysis of Algorithms
 - Data Mining and Machine Learning
 - Discrete Math
 - Data Structure Implementations and Analysis
 - Programming in C/C++ and Python