Avent Chiu

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Education

Irvine, California	University of California, Irvine	Sep 2020 - (May 2024)

- B.S. in Computer Science
- Major Coursework: Data Structures, Analysis of Algorithms, Intro to Software Engineering, Intro to Computer Organization, Intro Linear Algebra, Intro Stats, Discrete Mathematics

Experience

Project Team 1 Lead	Design at UCI	Mar 2024 - Present

- Collaborated with 4 fellow UI/UX designers to create a mobile app to provide music lovers a way to rideshare and plan agendas for concerts through a safe platform
- Conducted surveys to address users' needs and developed wireframes using **Figma**

Secretary and Tech Report Lead	Solar Cup Club	Sep 2018 - Apr 2020

- Collaborated with team members to ensemble a fully solar-powered boat to compete in the Solar Cup boat race competition
- Produced 4 drivetrain/steering tech reports showcasing gear ratios and physics calculations
- Installed killswitch on inboard motor, ensuring the safety of the driver in case of failure
- Resulted in winning 2nd place in the 2019 Solar Cup Rookie 200M Sprint

Projects

Wordi Discord Bot
https://github.com/sirAvent/wordi
- Created a bot that delivers a word guessing game in which the player has 6 attempts to guess a random 5 letter word to Discord servers built with **Python** and **discord.py**
- Created a responsive website with **Javascript**, **HTML**, and **CSS** as a service portal to streamline server invitations, address bug reports, and showcase bot demo
- Hosted on Replit HTTP servers with **Flask**, resulting in 24/7 uptime
- Currently deployed in 7+ Discord servers with 5+ daily users with count rising

Hack at UCI Full Stack Application Site
https://github.com/sirAvent/HackUCI-Deliverable
- Created fully specified REST backend using **ReactJS, React Bootstrap**, and **postman-echo API**
- Created a responsive Single Page Application frontend with **ReactJS**, **React Bootstrap**, and **CSS**
- Implemented form validation to check for valid email and inputs

ICS 32 Messenger Application
https://github.com/sirAvent/messenger-ics32
- Created a messaging app as a project for ICS 32 that allows users to display bios on a web server and send/receive encrypted messages using **Python**, **PyNaCl**, and **JSON** objects
- Created a GUI for login information, contacts, and messages with **Tkinter**
- Used **GET** and **POST methods** to decrypt/encrypt messages from/to a dedicated UCI web server
- Implemented a quick message feature where users can access the current weather or most popular artist with keywords using the **OpenWeather** and **lastFM APIs.**
- Generated code documentation using **pdoc**

AAAP Urban Dictionary Discord Bot
https://devpost.com/software/urban-dictionary-discord-bot
- Collaborated with 4 team members using **Node.js** to incorporate **Urban Dictionary API**
- Used **OBS Studio** to present project in video format to judges at TuffyHacks 2021 Hackathon
- Resulted in bot deployment into 2 Discord communities and 15+ users

NeedForSeed Website
https://devpost.com/software/needforspeed
- Led front-end using **HTML**, **CSS**, **W3Schools Framework,** and prototype with **Figma**
- Resulted in a fully working web application to be presented at SD Hacks 2021 Hackathon

Technical Skills

- Languages: Python, C++, Javascript/HTML/CSS, MIPS, Bash   (*Familiar*): SQL, R
- Other Skills/Tools: Git, Windows, Microsoft Office, Linux, MS Word, MS Powerpoint, Android Studio