

# Avent Chiu

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## Education

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<b>Irvine, California</b>	<b>University of California, Irvine</b>	<b>Sep 2020 - (May 2024)</b>
<ul style="list-style-type: none"><li>• B.S. in Computer Science</li><li>• Major Coursework: Data Structures, Analysis of Algorithms, Intro to Software Engineering, Intro to Computer Organization, Intro Linear Algebra, Intro Stats, Discrete Mathematics</li></ul>		

## Experience

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<b>Project Team 1 Lead</b>	<b>Design at UCI</b>	<b>Mar 2024 - Present</b>
<ul style="list-style-type: none"><li>• 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</li><li>• Conducted surveys to address users' needs and developed wireframes using <b>Figma</b></li></ul>		
<b>Secretary and Tech Report Lead</b>	<b>Solar Cup Club</b>	<b>Sep 2018 - Apr 2020</b>
<ul style="list-style-type: none"><li>• Collaborated with team members to ensemble a fully solar-powered boat to compete in the Solar Cup boat race competition</li><li>• Produced 4 drivetrain/steering tech reports showcasing gear ratios and physics calculations</li><li>• Installed killswitch on inboard motor, ensuring the safety of the driver in case of failure</li><li>• Won 2nd place in the 2019 Solar Cup Rookie 200M Sprint</li></ul>		

## 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**

## Technical Skills

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