Jaclyn Chen

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EDUCATION

University of Washington | B.S. Computer Science **September 2021 – December 2024**
- Direct Admit to the Paul G. Allen School of CS & Engineering | Cumulative GPA: 3.75
- UW Annual and Quarterly Dean's List for all Quarters
- Key Courses: Software Design and Implementation, Fundamentals of Logic, Discrete Probability, Data Structures and Parallelism

EXPERIENCES

Penn Wharton Budget Model **June - September 2020**
- Created a multifaceted visualization tool for Federal Reserve Economic Data to provide accessible and transparent economic analysis of public policy
- Extracted, filtered, and displayed data using APIs, Pandas, Flask, Python Dash, and PlotLy

Basking Ridge Business Alliance **2018**
- Developed the frontend for a local business's website to organize upcoming events
- Wrote scripts using HTML, CSS, and JavaScript

PROJECTS & AWARDS

NASA Growing Beyond Contest – Cosmos | National Finalist (5th) **February 2020**
- Designed and constructed an enclosure to harvest food in the International Space Station, a microgravity environment
- Engineered lighting and watering systems using CAD, 3D-printing, and IoT: Arduino C/C++, FastLED library, Servos and DC motors

PennApps XX – Phoenix | Wharton's Best Hack for Resilience **September 2019**
- Developed an autonomous drone and accompanying webapp that scouts and extinguishes city fires and wildfires
- Utilized Google Cloud Vision to recognize fires, PS drone API to control its movements, & Python, JSON, and CSS for the webapp

TechTogether Boston – Torch | JPMorgan Chase's Best Hack for Disaster Relief and Recovery **January 2019**
- Fabricated a radio-signaling and trackable wearable with a notification system to contact emergency services
- Programmed ESP-32 microcontroller, LEDs, and radio-module with C/C++, built app with React Native

EXTRACURRICULAR ACTIVITIES

UW WOOF 3D | Outreach Director | Project Lead **2021 - Present**
- Coordinate grass-roots workshops for K-12 Education and strengthen collegiate interest in DFab
- Lead a team to develop software and processes to convert topographical map data to 3D-printed and aluminum-casted models

RidgeHacks | Executive Director **2019 – 2021**
- Hosted the first 12-hour annual middle and high school hackathon to increase CSE engagement and accessibility
- Supervised the Sponsorship, Logistics, and Outreach teams to organize a successful event with $3000 in prizes, 50 participants, and 15 demoed projects

Ridge Computer Science Club | Co-President **2017 - 2021**
- Devised a weekly workshop and project oriented CSE curriculum for high school students
- Worked to build a CS community through local events at middle schools and libraries

SKILLS

- Languages: Java, Python, HTML5, CSS, JavaScript, Typescript, C, C++, Bash
- Other: Git, React, Django, Flask, Flutter, Unix/Linux, LaTeX, IoT, 3D modeling and printing, CAD (Fusion 360), Graphic Design/Animation (Adobe Creative Suite), G-Suite, MS Office