Chujun Xu (Jerry)

✉ xuchujun2672@gmail.com
🔗 linkedin.com/in/chujun-jerry-xu

Education

- **Computer Science B.S, Mathematics B.S., UCLA**   Oct 2020 - Jun 2024 (expected)
  - o GPA: 3.94/4.00, Deans Honor List Recipient
  - o Courses: Data Structures and Algorithms, Operating System Principles, Computer Architecture, Automata Theory, Computer Security (in progress), Artificial Intelligence (in progress)

Experience

- **Google, Inc., Sunnyvale, CA**   Jun 2022 - Sep 2022
  STEP Intern
  - o Spanner (Google's globally consistent relational database) backup team manages O(100k) batch job pipelines daily; lack of resources often triggers tickets
  - o Created internal tool in C++ that exposes the backup pipelines' scheduling delay, reducing on-call load
  - o Defined a clean data model to represent a pipeline with controller and worker pool jobs using protocol buffers, stored in a Spanner table
  - o Exported metric to a monitoring service; created 2 different dashboards using Python to visualize trends
- **Stellar Cyber, Santa Clara, CA** [link]   Jun 2021 - Sep 2021
  Software Engineer Intern
  - o Connected Prometheus's Alertmanager and a heartbeat server through a Flask app that additionally verifies credentials; Runs in a Docker container in a Kubernetes pod
  - o Added multiple custom CLI commands, such as resizing root filesystem and LVMs
  - o Introduced a unit testing framework in Python and added numerous test cases for existing code

Projects

- **Caligo** [link]
  - o Developed Chrome extension that enables dark mode and changes fonts on webpages for accessibility
  - o Collaborated in team of 2 over 1 week, for LA Hacks 2021
  - o Utilized HTML/CSS, JavaScript, and Chrome APIs
- **Traffic Light Recognition** [link]
  - o Programmed a machine learning model (convolutional neural network) in Python for recognizing state of a traffic light, resulting in 91% accuracy; utilized Pytorch, NumPy, and Matplotlib libraries
  - o Used open-source Bosch dataset with annotated images of traffic lights
  - o Wrote a research paper, created presentation and video detailing results

Leadership

- **ACM Cyber President at UCLA** [link]   Nov 2020 - present
  - o Presented cybersecurity related workshops on topics such as PHP web shells, XSS/CSRF, etc.
  - o Designed and implemented CTF style challenges for each workshop with varying difficulties [link]
  - o Mentored teams in various CTFs such as DTCC CTF, MetaCTF, Reply Cyber Security Challenge, etc
- **LA Blueprint Developer Project Lead at UCLA** [link]   Nov 2021 - present
  - o Helped the Shoes that Fit nonprofit organization create a React web app that handles inventory management of shoe donations and orders for underprivileged children
  - o Implemented Figma designs of multiple pages; utilized Airtable as backend database
- **UPE member at UCLA** [link]   Apr 2021 - present
  - o Inducted into computer science honor society for top 1/3 of undergraduate CS/CS-related majors
  - o Tutored other undergraduates on lower division classes such as Data Structures and Algorithms

Skills

- C++/C, Python, HTML/CSS, JavaScript, Bash, Git
- React, Node.js, Flask, Docker, Kubernetes