Ziyi (Andy) Peng

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Education

Sept. 2018 - June 2022

University of California, Los Angeles

B.S. Computer Science and Engineering • GPA: 3.88

- Coursework (taken and current): Algorithms, Operating Systems, Programming Languages, Networks • Multivariate Calculus, Linear Algebra, Discrete Structures, Real Analysis • Systems and Signals

Experience

June 2019 - Sept. 2019

Uber Advanced Technology Group • San Francisco, CA

Software Engineering Intern | SDV Platform

- Collaborated to design and build distributed map generation pipeline using Spark and Airflow for use by road network extension tool, replacing previously manual process spread across several teams
- Implemented parts of gRPC/Go backend related to querying/filtering resulting data

Jan. 2019 - Dec. 2019

Physics of Amorphous and Inorganic Solids Lab at UCLA • Los Angeles, CA

Undergraduate Research Assistant

- Analyzing and modeling the sorption curves of porous materials via neural networks and Monte Carlo methods implemented with NumPy/Keras

June 2018 - Aug. 2018
June 2017 - July 2017

Wynd Technologies, Inc. • Redwood City, CA

Backend Software Development Intern

- Doubled extent of dynamic air quality database, adding pollen/weather data
- Maintained Node.js/MongoDB scraping backend, updating scripts to ES6
- Onboarded several other interns, helping write tutorials and documentation

Activities/Honors

Sept. 2018 - Present

Bruin Spacecraft Group

Software Subteam | Project Reach, Project Rapid

- Designing and implementing flight software and sensor integrations for two projects: Reach's modular amateur cubesat (using MRAA/C++), and Rapid's URSa, a cubesat built around an experimental ion thruster (using KubOS/Rust)
- Helping maintain club website (bruinspace.com)

Sept. 2018 - Present

Unmanned Aerial Systems at UCLA

Technical Director | Vision Subteam

- Working on computer vision models (e.g. CNN shape classification, K-means color segmentation) using Keras/OpenCV for use at annual competition
- Designing an automated testing system, aimed towards eventual CI/CD

Spring 2019 — UCLA Upsilon Pi Epsilon Inductee

Spring 2017 — USA Mathematical Olympiad Qualifier, USA Computing Olympiad Platinum

Skills

Languages	Python, C/C++, Java, Bash, MATLAB, HTML/CSS, JavaScript/Node.js
Other	Git, CMake/GNU Make, Protobuf, gRPC, NumPy, Keras, LaTeX