

Ziyi (Andy) Peng

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Education

Sept. 2018
- June 2022

University of California, Los Angeles
[B.S. Computer Science and Engineering](#) • GPA: 3.89

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

Experience

Aug. 2020
- Present

Visual Machines Group • Los Angeles, CA
[Undergraduate Research Assistant](#)

- Working on computational imaging methods

June 2019
- Sept. 2019

Uber Advanced Technology Group • San Francisco, CA
[Software Engineering Intern I SDV Platform](#)

- Collaborated to design and build distributed map generation pipeline (Spark/Airflow) for use by road network extension tool, replacing 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

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

Activities/Honors

Sept. 2018
- Present

Bruin Spacecraft Group
[Project Reach Chief Engineer, Project Rapid Software Lead](#)

- 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
[AVIATA Principal Investigator, Vision Subteam Lead](#)

- Working on computer vision models (e.g. CNN shape classification, K-means color segmentation) using Keras/OpenCV for use at AUVSI competition
- Developing AVIATA, a NASA-funded student research project, involving a fleet of drones autonomously docking to and lifting a central frame/payload

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, NumPy, Keras, LaTeX