

# Ziyi (Andy) Peng

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## Education

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- Sept. 2018  
- June 2022
- University of California, Los Angeles  
[B.S. Computer Science and Engineering](#) • GPA: 4.00
- Coursework (taken and current): Intro to C++, Data Structures, Algorithms, Intro to Computer Organization, Operating Systems
  - Misc. Activities: Running Club, UCLA Upsilon Pi Epsilon

## Experience

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- 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 using Spark and Airflow for use by road network extension tool, replacing previously manual process
  - Implemented parts of gRPC/Go backend API related to querying/filtering resulting data
- Jan. 2019  
- June 2019
- Physics of Amorphous and Inorganic Solids Lab at UCLA • Los Angeles, CA  
[Undergraduate Research Assistant](#)
- Using NumPy/Keras, explored/analyzed patterns in the sorption curves of porous materials via neural networks and Monte Carlo methods
- June 2018  
- Aug. 2018
- Wynd Technologies, Inc. • Redwood City, CA  
[Backend Software Development Intern](#)
- June 2017  
- July 2017
- Doubled extent of company's 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
- July 2017  
- June 2018
- Perception Science Internship • Berkeley, CA  
[Program Participant, Research Assistant](#)
- As a group of 4, implemented and reported on 2 experiments using MATLAB
  - Designed JavaScript-based interactivity for Qualtrics surveys and online experiments

## Activities/Honors

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- Sept. 2018  
- Present
- Unmanned Aerial Systems at UCLA  
[Technical Director I Vision Subteam](#)
- Working on improving computer vision models (e.g. CNN shape classification, K-means color segmentation) using Keras/OpenCV for use at the AUVSI SUAS drone competition
  - Developing Python/ZeroMQ vision server to improve modularity and throughput
- Sept. 2018  
- Present
- Bruin Spacecraft Group  
[Project Spartan Software Subteam](#)
- Designing and implementing the testing system for an amateur cubesat with modular payload and avionics; helped maintain club website (bruinspace.com)
- Spring 2016/17
- [USA Mathematical Olympiad Qualifier](#)
- Spring 2017
- [USA Computing Olympiad - Platinum](#)

## Skills

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[Languages](#) Proficient: Python, Java • Familiar: Bash, Go, C++, HTML/CSS, JavaScript/Node.js

[Other](#) Git, Jenkins, Make, Protobuf, gRPC, Spark, NumPy, Keras, LaTeX