Ziyi (Andy) Peng

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Education

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

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 - Present

Physics of Amorphous and Inorganic Solids Lab at UCLA • Los Angeles, CA
Undergraduate Research Assistant
- Analyzed various patterns in 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

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 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 supporting modular payload and avionics
- Helped maintain club website (bruinspace.com)

Spring 2016/17   USA Mathematical Olympiad Qualifier

Spring 2017   USA Computing Olympiad - Platinum

Skills

Languages   Proficient: Python, Java • Familiar: Bash, Go, C++, HTML/CSS, JavaScript/Node.js

Other   Git, Jenkins, Make, Protobuf, gRPC, NumPy, Keras, LaTeX