Zhiwei Zhang

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EDUCATION

University of California Berkeley — GPA: 4.0

B. A. In CS and Applied Math — Expected Graduation: Spring 2022

RELAVENT COURSES

- Deep Reinforcement Learning
- Database | Operating System
- Electrical Engineering
- Efficient Algorithms
- Graduate Combinatorial Algorithms
- Numerical Analysis / Linear Algebra
- Machine Learning
- Info Theory | Random Processes
- Linear Optimization

EXPERIENCE

Researcher, RAIL Lab (Sep 2019 - Present)

- Researching meta-learning with approaches established upon MAML, PLAiD, and Guided Meta-Policy Search; Experimenting the limits of algorithms and analyze the benefit of sequential training

Department Leader, ICRA Robomaster (Feb 2019 - Present)

- Designed robotic policies using Reinforcement Learning and Markov model for the ICRA Robomaster AI Challenge
- Lead Strategy Department and develop new Machine Learning strategies for robots
- Third prize in May 2019's international competition

AWS Honeycode. SDE Inter (June 2020 - September 2020)

- Developing features for the HoneyCode product of AWS

Researcher, AUTOLAB (Sep 2019 - Nov 2019)

- Using Farmbot as a platform & collaborate with pHD students to analyze thermal images of plants for irrigation optimization

Software Developer, Pool2School (May 2019 - October 2019)

- Using Google Maps API, DeveloperHere Platform, and Google Firebase to develop an web-based application that coordinates car-pool services for near-campus students

PROJECTS

- **Project Lead : Gradient-oriental Reinforcement learning (July 2019)**
  - Innovates behavioral cloning and model-based reinforcement learning methods by centering loss towards the gradient of the sample space
- **Plant Kernel Classification (July 2019)**
  - Used Support Victory Machine, naive Neural Network, and Convoluted Neural Network to determine possibilities of kernel germination
- **Battery Recycling application (April 2017 - Aug 2017)**
  - Developed an iOS app that coordinates voluntary battery recycling service with AWS and GoogleMaps API
- **Jane Street Hackathon (Feb 2019)**
  - Development algorithms that makes money in a randomly simulated stock market

HONORS AND AWARDS

- ***ACM North American Qualifier: UCB 11th place | Regionals 2nd place in Division 2***, 2019
- ***USA Computing Olympiad, Gold Tier Competitor***, 2019
- ***Google Foobar Challenge Google, Passed All Levels***, Oct - Dec 2017
- ***AMC12, AIME winner***, by Mathematical Association of America, March 2018

SKILLS

Technical: Java, Python, Swift , C++, Java-/Type-script, C , SQL

Non-technical: English, Mandarin, **Presentation**, Visual Design