Robert Zalog

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EDUCATION

University of California, Los Angeles — Expected June 2019

- B.S. Computer Science
- Cumulative GPA: 3.82
- Selected Courses: Machine Learning, Operating Systems, Algorithms, Computer Networking

EXPERIENCE

Software Engineering Intern | Microsoft — June 2018 - Present

- Enabled leadership to have clear insight into developer wait time on submissions to store by providing fine-grained latency data for one million plus apps, by creating BI report with Power BI
- Designed data pipeline to aggregate data from multiple big data sources into easily consumable data store

Micromouse Project Lead | UCLA IEEE Student Branch — May 2018 - Present

- Lead 80+ students to design their own autonomous, maze-solving robots
- Give all participants greater opportunity to succeed by addressing critical flaws in program, creating new year long plan and revamping six lectures

Software Engineering Intern | Veritas — June 2017 - September 2017

- Enabled extreme load testing to services, over ten times gain in single user load testing ability, with load testing tool built on a horizontally scalable architecture with **Python**, Flask and Celery
- Allowed scalability and ease of deployment by designing application as a microservice in live cluster with **Docker** and **Kubernetes**

PROJECTS

Micromouse | C++, Embedded Systems — October 2016 - Present

- Built autonomous, maze-solving robot on custom PCB in team of three, which solved a 16x16 maze at competition in under thirty seconds
- Implemented multi-part controls system using PID
- Designed scalable software system for the robot in **C++**, creating a hardware-agnostic platform that allowed for easy extensibility and debugging

Light It Up! Frisbee | Arduino — January 2017

- Finished first of thirty-plus-teams for best overall at IDEAHacks 2017
- Designed mountable **Arduino** system for a frisbee providing real-time, visual feedback on throws

SKILLS

Languages: Python, C, C++
Technologies: Docker, Kubernetes, Embedded systems, Power BI, SQL

ACTIVITIES & AWARDS

IDEAHacks 2017, Best overall of thirty-plus-teams
Upsilon Pi Epsilon, UCLA Chapter, Member