

PRATHYUSH KATUKOJWALA

prathyushk@ucla.edu | (858) 210-2371 | <https://linkedin.com/in/prathyushk> | <https://github.com/prathyushk>

Education

University of California, Los Angeles | Expected Graduation Date: June 2019

B.S. in Computer Science and Engineering | Cumulative GPA: 3.96/4.0

Relevant UCLA Coursework

Artificial Intelligence, Computer Systems Architecture, Computer Networks, Operating Systems, Algorithms and Complexity, Discrete Mathematics, Logic Design of Digital Systems, Linear Algebra, Data Structures, Computer Organization, Systems and Signals, Software Construction Laboratory

Other Coursework

UTAustinX – UT.6.01x Embedded Systems, UC San DiegoX – CSE167x Computer Graphics

Experience

Qualcomm Software Engineering Intern | Summer 2016, 2017

- Cutting edge work on Google's Fuchsia OS to bring it to Qualcomm's Snapdragon based systems.
- Implemented display and serial drivers in Fuchsia for premier line Snapdragon chips.
- Created and deployed a web-activated bootloader patch verification application with Gerrit integration.
- Designed, developed and deployed an auto-triage feature for automated change request generation.
- Developed post-processing software to detect artifacts and image/video quality for computer vision algorithms.
- Created a framework for automated computer vision testing on Android devices.

UCLA Upsilon Pi Epsilon Officer Tutoring Chair | Fall 2017-

- Working to bring upper division class tutoring and review sessions to UCLA. Specializing in operating systems coursework.

Laboratory for Embedded Machines and Ubiquitous Robots Researcher | January 2016-

- Previous project was to create a robot compiler for the rapid design and manufacture of printable robots.
- Solved problems related to computational geometry and constraint solving.
- Submitted research abstract and presented at SoCal Robotics Symposium.

UCLA IEEE September 2015-

- Designed and built an autonomous robot that uses feedback control and the flood fill algorithm to navigate a maze.
- Designed and built an embedded system that uses a gyroscope and accelerometer to be used as a wireless computer mouse. Also, created a receiver system that communicates with the mouse wirelessly.

Awards and Honors

- Undergraduate Research Scholars Award (2017) – awarded to undergraduates with a strong academic record and the ability to engage in significant research efforts.
- Qualstar Award (2016) – awarded to Qualcomm employees for performing above and beyond.
- Member of Upsilon Pi Epsilon (UPE), Eta Kappa Nu (HKN) and Tau Beta Pi (TBP) honors societies.

Languages and Skills

C/C++, x86-64 Assembly, ARM Assembly, OpenGL, Bash, Java, Unix, Python, Django, Perl, Git, HTML, CSS, JavaScript, Node.js, OpenCV, MATLAB, SQL, Emacs, Fortran, Unreal Engine 4, JTAG Hardware Debugging, PCB design, soldering, microcontrollers.