

SHANE BARRATT

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EDUCATION

University of California, Berkeley

Expected May 2017

B.S in Electrical Engineering & Computer Science (Honors Degree Program)

Regent's And Chancellor's Scholar

Major Coursework (GPA 4.0/4.0):

Operating Systems(inp.), Microelectronic Circuits and Devices(inp.), Information Theory (inp.),

Linear Dynamical Systems, Probability and Random Processes, Computer Architecture, Artificial Intelligence,

Machine Learning, Algorithms, Quantum Mechanics, Real Analysis, Digital Signal Processing

TECHNICAL STRENGTHS

Programming Languages Systems

Python, Go, C++, Java, Javascript, HTML/CSS

Linux, Networking, Security, git

Hands-On

Microcontrollers, Analog Electronics, HAM Radio, TIG Welding

App Development

Built Clear the Beavers (on the App Store)

WORK EXPERIENCE

Undergraduate Researcher

August 2016 - Present

Berkeley Wireless Foundations Center

- Investigating collaborative Artificial Intelligence techniques
- Competing in the DARPA Spectrum Collaboration Challenge

Catamaran Ventures

May 2016 - August 2016

Platform Engineering Intern

- Worked with a leading private investment firm on studying and building advanced products in big data, analytics and machine learning
- Improved core infrastructure and training materials

UC Berkeley

January 2016 - May 2016

EE16B Undergraduate GSI

- Lead two 40+ student discussion sections and held office hours
- Developed the material and goals of the course, which was in its second offering

Google (Skybox Imaging)

June 2015 - August 2015

Hardware Engineering Intern

- Designed and implemented a next-gen spacecraft optical image stabilization system
- Developed a state-space structural dynamics model, performed proton radiation testing, characterized electronics and wrote embedded software

UC Berkeley Robot Learning Lab

June 2014 - October 2014

Undergraduate Researcher

- Worked on improving a point cloud registration algorithm, and helped publish a paper to ICRA 2015
- Gained experience in software development, linear algebra, optimization, numpy and OpenRAVE
- Co-authored paper that is in the proceedings of the IEEE International Conference on Robotics and Automation (ICRA), 2015