John Dulin

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LinkedIn

Experience

May 2014 - August 2014 **Hacker Intern** *Tlon*, San Francisco, CA.
- Helped work on the functional, deterministic personal cloud computer Urbit.
- Built its first web applications and a substantial amount of its first developer documentation.
- Assisted work on the standard library and documentation of the functional systems language Hoon.

May 2013 - August 2013 **Hacker Intern** *Sociagram*, Cleveland, OH.
- Built the first versions of the Python, Java, and Android client SDKs for the FrameStack asynchronous video-messaging API with full unittest and JUnit testing suites.
- Built a demo Android application demostrating the FrameStack Android Library.
- Designed and worked on an Android application based social robot using my Android SDK.

March 2012 - August 2012 **Robotics Research Intern** *Air Force Research Lab*, Dayton, OH.
- Worked on a self-determined humanoid robotics research project with the NAO robot.
- Built applications in Python combining computer vision and robotic navigation and control.

May 2012 - May 2013 **Google Student Ambassador** *Google*, Cleveland, OH.
- Organized events on CWRU's campus to promote Google products, brands, and relationships in collaboration with Google marketing teams.

October 2011 - May 2012 **Programmer** *CWRU School of Medicine Genetics Lab*, Cleveland, OH.
- Built scripts in Python, R, and bash to manipulate DNA base sequences for cancer research.

Skills

Languages	Python, Java, Hoon, Haskell	Novice	Javascript, PHP, C, C++
Platforms	Android, Urbit, ROS, NAOqi	DB	MySQL (Novice), MongoDB
Tools	Git, EC2, Bash, Scipy, Numpy, LaTeX	Frameworks	Python unittest, JUnit, JQuery, Laravel

Linux command line fluency.

Education

Physics, B.A., Minor in Computer Science
Case Western Reserve University, May 2015.

Projects

Senior Thesis Solved for the Laplacian eigenmodes of the universe for oblique torus topologies. Built numerical tools in Python to simulate correlation matrices of the Cosmic Microwave Background radiation for candidate topologies under Prof. Glenn Starkman.

Winthrop Simple Scheme interpreter written in Haskell using combinatory parsing with Parsec.

Activities and Interests

ACM@CWRU Vice President (2013-2014), Secretary (2012-2013), and Treasurer (2011-2012). Organized the reformation of ACM at CWRU, hackathons and trips to hackathons, and helped start the annual Link-State conference.

Hackers Society First Sophomore Maintainer of the CWRU Hackers Society student group, which presents weekly tech talks, programming workshops, and connects students to a network of employers.

FIRST Robotics President, Founder, and coder of FIRST FRC Team 3652. Personally fundraised over $9,000 in sponsorships. Managed 16 students and 3 adult mentors while overseeing the successful design of robot hardware and software.