Akshaya Uttamadoss
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Education:

Princeton University, Princeton, NJ June 2015
Major: Electrical Engineering
Relevant Coursework: Algorithms and Data Structures, Introduction to Systems Programming, Computer Architecture, Designing Secure Systems, Operating Systems, Functional Programming
Campus Activities: Laboratory Teaching Assistant for the Computer Science Department

Skills:

- Proficient in PHP, Java, Python, C
- Experience with web development using Django, Ruby on Rails, and JavaScript (jQuery, D3.js)
- Experience with SQL, PHP, Android Programming, and UNIX

Research and Projects:

***Histograph* – Final Project For Applications of Programming (COS 333)** Feb-May 2014
Web application consisting of a Chrome Extension and Django site that gives users graphical analytics on their browsing patterns. It also generates recommendations for new websites based on similarities in browsing patterns with friends.

***Segway Bot* – Final Project For Building Real Systems (ELE 302)** April-May 2014
Two-wheeled robot that uses inverted pendulum principals and PID control loops to balance itself. The robot is also controllable via Bluetooth using an Android application.

***"piAngulate"* – Acoustic Triangulation** July27-28, 2013
Raspberry Pi based system to locate the source of noise using acoustic triangulation. Finalist at Greylock Hackfest 2013.

***"Scary Monsters and Nice Lights"* – Dubstep Laser Harp** Nov 9-11, 2012
Hardware sound synthesizer which produces modulated sounds when the lasers, which act like the harp's strings, are broken. Won 1st Place in Hardware and Coolest Hack Award at HackPrinceton.

Work and Internships:

Facebook Menlo Park, CA Sept 2015 - March 2017
Software Engineer - Quick Promotions Team
Improved Facebook's primary communication channel with it's users. A re-design effort I helped drive led to a 20% increase in clicks.

Amazon.com, Inc. Seattle, WA June-August 2014
SDE Intern – Appstore Tech Team
Upgraded an internal Self-Service Tool for the Appstore to diagnose compatibility issues between devices and apps using Ruby on Rails and Java services.

SLAC National Accelerator Laboratory Menlo Park, CA June-August 2013
Summer Undergraduate Research Intern
Assisted in the implementation of a feedback based balanced optical cross-correlation system to reduce the amount of timing jitter within the accelerator's fiber link system.

Hong Kong Applied Science and Technology Research Institute (ASTRI) Hong Kong June-August 2012
Communications Technology Intern
Contributed to an ongoing wireless sensor networking project to monitor leakage in pipes. Investigated PHP script runtime and optimization on UNIX servers along with the feasibility of piezoelectric energy harvesting for sensor motes.