Ashwin Madavan

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Education

University of Texas, Austin, TX (2018)
B.S. Computer Science, Turing Scholar Honors; B.S. Mathematical Sciences; Certificate in Business Foundations
College of Natural Sciences Freshman Scholarship

Honors Courses		Other Courses
Data Structures	Discrete Math	Probability
Computer Architecture	Vector Calculus	Real Analysis
Operating Systems	Differential Equations	Financial Accounting
Computer Vision	Linear Algebra	

Work Experience

Salesforce.com, San Francisco, CA. Software Engineering Intern (May - August 2015)
Member of the Security Cloud team. Worked in identity management and authentication. Tested and debugged implementation of SCIM, an open user provisioning standard for the cloud. Created a development plan for upgrading from SCIM 1.1 to SCIM 2.0. Helped debug authentication issues for large customers. Developed end-to-end tests for two-factor authentication. Fixed security bugs for the Summer 2015 release.

Leapset, Inc., Redwood City, CA. Summer Software Intern (May - August 2013, 2014)
Built kiosk software, using HTML, CSS, Javascript, and bash, that is now being shipped with Leapset's restaurant point-of-sale (POS) demonstration units to help sales teams explain product functionality to prospective customers. Developed an innovative receipt printing code in Node.js that is now integrated into the POS terminal software. Designed and built a Java data-mining crawler to harvest restaurant profiles from the web. Created corporate tools, utilizing MySQL database, Java Servlet, Spring, Hibernate, and HTML, CSS, and JavaScript front-ends, to simplify invoice generation and approval, and track and manage sales commissions and other financial information. Developed a working Android application prototype that delivers location-based advertisements using Estimote Beacons.

Micello, Inc., Sunnyvale, CA. Summer Software Intern (June - August 2012)
Developed Local Apps, a location-based application discovery tool available on both Android and iPhone, that utilizes JAX-RS web services and location services to identify apps in the vicinity of a user. Solely responsible for the Android and web service implementation. Worked closely with another intern to design the iPhone app. Due to a shift in corporate strategy at Micello, only a preliminary version with limited functionality was published; the app was later included in an intellectual property asset sale by Micello.

Projects

Please visit my personal website at `http://madavan.com/` for articles describing some of my most interesting projects. Source code for most projects can be found on my GitHub at `https://github.com/ashwin153`.

Stocks (2015) Developed a neural network to forecast future free cash flows that was trained on historical SEC financial data. ("Automated DCF Analysis" on `http://madavan.com/`)

PacMan (2015) Developed a Java version of the classic arcade game from scratch, and created a neural network that was trained using a binary genetic algorithm to play the game. ("Evolving a PacMan AI" on `http://madavan.com/`)

Music (2014) Developed a program that uses Markov Chains to generate original music from sample songs. ("Music Generation Using Markov Chains" on `http://madavan.com/`)

Technical Skills

Proficiency: Java, MySQL, Android
Exposure: C, x86 Assembly, Spring, Hibernate, JavaScript, LaTeX, Verilog, MATLAB