

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 Classes: Data Structures, Discrete Math, Vector Calc, Differential Eq., Lin. Algebra and Comp. Architecture

Monta Vista High School, Cupertino, CA (2014)

National AP Scholar, AP Scholar with Distinction, California Central Coast Section Scholar Athlete Award

Completed 11 AP courses, including Computer Science (5 on AP exam), Calculus BC (5), and Statistics (5)

WORK EXPERIENCE

Salesforce.com, Inc., San Francisco, CA. Software Engineering Intern (May - August 2015)

Worked in Identity Management and Authentication for the Security Cloud. Tested and debugged implementation of SCIM, an open cloud user provisioning standard. Created a development plan for shifting from SCIM 1.1 to SCIM 2.0. Helped debug authentication issues for a few large customers. Developed end-to-end tests for two factor authentication. Fixed security bugs for the Summer '15 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 (IP) 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 trained on historical SEC financial data to forecast future free cash flows. ("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/>)

Project Euler (2013) Completed 77 of the challenging Project Euler problems. Still working on problem 78!

TECHNICAL SKILLS

Proficiency: Java, Android, MySQL

Exposure: Spring, Hibernate, C, x86 Assembly, Verilog, HTML, CSS, JavaScript, LaTeX