

MARK DHILLON

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EMPLOYMENT HISTORY

Senior Research Engineer, toSense

3/2015 — Present

San Diego, CA

- R&D lead for wearable health sensor algorithms including real-time measurement of cardiac output, stroke volume, and cuff-less blood pressure. Algorithm lead for project that resulted in first-ever FDA approval for remote monitoring of stroke volume and cardiac output from a wearable device
- Responsibilities include signal processing software for algorithms, clinical trial design and oversight, statistical analysis of results, and tool implementation for research purposes and automation

Founder & CEO, ReviewSage

6/2013 — 12/2014

Madison, WI

- Awarded seed funding to transform Master's project into a business. Developed a platform for restaurants to manage reputation through text analysis of content online and in-house feedback
- Raised a convertible note and expanded the development team after securing FoodFight restaurant group as a customer

Software Engineering Intern, Google

6/2012 — 8/2012

Mountain View, CA

- Tasked with improving report labeling for a critical customer feedback tool used by numerous internal teams for Android
- Solution introduced a composite design pattern for label hierarchies alongside user preferences to ensure relevant views

DesignLab Consultant, University of Wisconsin – Madison

9/2011 — 5/2013

Madison, WI

- Computer Science representative for a cross-departmental program to help students learn elements of design
- Assisted undergraduate students with software design, data visualization, and software implementation

Senior Software Engineer, Rearden Commerce

10/2009 — 6/2011

Foster City, CA

- Applications team developer for Rearden Commerce's enterprise service portal, which customers used to book airfare, hotels, restaurant reservations, event tickets, and to ship packages
- Responsibilities included leading the design and implementation for a new customer homepage, improving the infrastructure for the shipping service, and adding RESTful layers for accessing data owned by the Applications team. Supported the Quality Assurance team by teaching members how to automate Selenium for more efficient testing

EDUCATION

University of Wisconsin, Madison

9/2011 — 5/2013

- Master of Science, Computer Science

University of California, Berkeley

1/2006 — 7/2009

- Bachelor of Arts, Computer Science

TECHNICAL SKILLS AND EXPERIENCE

- Proficient in Python (including numpy and scikit-learn), MATLAB, Javascript (including D3), Java, C++, SQL. Named inventor on 3 patents.
- Björn Hartmann, Mark Dhillon, and Matthew K. Chan. HyperSource: Bridging the gap between source and code-related web sites. In *Proceedings of CHI 2011*.