JAMIS M. JOHNSON 2.0

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EDUCATION

M.S. Computer Science, Machine Learning focus, Graduate Spring 2015
Columbia University, New York, NY

B.S. Applied Mathematics, **B.S. Computer Science**, May 2012
University of Utah, Salt Lake City, Utah

- 3.5 Cumulative GPA

Mandarin Language Program, Fall 2006
Jiao Tong University, Shanghai, China

EMPLOYMENT

HireVue, Full-stack Software Engineer, Full-time, December 2011 – July 2013

- Frontend: AngularJS, Bootstrap, Less, angular based libraries, jQuery, JavaScript.
- Backend: Python, Django, Postgres, ffmpeg, AWS. Linux dev env, Git version control.
- Mentored by a small group of veteran engineers. Our team grew from 4 engineers to 22 during my tenure. Sequoia recently injected $25M in Series D funding.

3PDx, September 2012 – February 2013

- Worked with an early phase bioengineering startup to engineer a smartphone-connected device for detecting HIV/AIDS.
- Responsibilities included designing and programming the iOS app, as well as the network communication between the device and phone.

Sparrow Healthcare, Summer 2011

- Software engineer and designer of Sparrow Healthcare's suite of iOS apps.

Skweez.com, May 2009 - August 2010

- Founder and primary engineer of mobile daily-deals site.
- Built our SMS text messaging infrastructure and website.
- Sold the company in 2010 after acquiring over 8,000 subscribers.

RELEVANT COURSEWORK

Senior Capstone & Image Processing, Fall 2012

- Developed an image processing library from scratch, written in C.
- Built iPhone, iPad and Android applications to process photos and video, frame-by-frame.
- Developed a server-side version of the software for post-processing uploaded video.
- Placed 1st of 25 teams in the annual senior project competition.

Machine Learning, Stanford Online, Fall 2011

- Covered regularized linear and logistic regression, gradient descent, support vector machines, k-means clustering, principal component analysis, and anomaly detection.
- Built a supervised-learning-based optical character recognition system via neural network
- 95% average score on all coursework.

Numerical Analysis, Fall 2011

- Studied numerical differentiation and integration, quadratures, splines, matrix factorization, sparse matrices, Legendre polynomials and iterative solutions to nonlinear least squares.
- Final paper and presentation on parametric Bézier curves.
- Ranked 6th in the class.

ACM Programming Competition, Rocky Mountain Region, Fall 2011

- 6th of 70 teams competing.
- 1st place from the University of Utah.

Math Finance I & II, Fall 2011, Spring 2012

- Learned continuous and discrete time finance.
- Mastered Black-Scholes, Monte Carlo simulations, the GARCH model, pricing options, geometric Brownian motion, stochastic dynamic programming, jump diffusion modeling, and approximating implied volatility.
- Extensive use of MATLAB for simulations and projects.

Software Engineering for Large Data Sets & Scientific Visualization, Fall 2009, Fall 2010

- A year-long project aimed at consuming and visualizing stock market data.
- Wrote a cron-scheduled Python script, fired nightly, to authenticate with a financial data feed, download daily price movement and trade volume for all NYSE tickers, and then parse and store the data in a relational database.
- Utilized Matplotlib to visualize daily volatility across 5 years of history, 2,200 companies and 2.8 million points of data.

SKILLS

Proficient: Python, Haskell, JavaScript, Matlab, Unix, Vim, Git, long handstands
Web: Django, AngularJS, jQuery, Less, Bootstrap
Comfortable: Objective-C, C/C++, Java

INTERESTS

Motorcycles, skiing, skateboarding, brewing beer, and New York City.

SERVICE

Eagle Scout, 2004
Boy's State, 2004

- 1 of 4 finalists, of 500 students, to represent Utah as a Boy's Nation Senator