

EDUCATION:

Stanford University, Stanford, CA (9/06 – 3/08)

Master of Science in Management Science and Engineering, Operations Research concentration

Case Western Reserve University, Cleveland, OH (8/02 – 5/06)

Bachelor of Arts in Mathematics and Economics, minor in Political Science

TECHNOLOGIES:

Python, JavaScript, Java, Apache Beam, Spark, SQL, Redis, MongoDB, Elasticsearch, Chef, Puppet, Docker.

Previous experience with C++, Objective-C, C#, Ruby, Lisp, Matlab, Stata, SAS. Preference for Linux or BSD.

WORK EXPERIENCE:

Vice President Equities Technology, Goldman Sachs, New York, NY (4/2015 – Present)

- Created an Equities/Options exchange fee calculator, using Python for APIs and Apache Beam/Spark for data workflows. Automated the reconciliation process and improved accuracy from 20% to <1%.
- Lead development on an ETE testing framework used to certify trading and messaging applications using Python, JavaScript/React, and C++.
- Owned proof of concepts of Chef, Docker, public cloud services, and evaluating their application in Equities.

Product Manager/Lead Software Engineer, StreetLight Data, San Francisco, CA (11/2013 – 3/2015)

- Lead engineer for a SAAS product selling and visualizing geospatial data analytics, using JavaScript/Angular, Python, Flask, Redis, and PostgreSQL.
- Mentored junior developers in best practices and established the company's SDLC.
- Launched initial product, prepared product roadmaps, prioritized features, and conducted usability studies.
- Collaborated with sales team to onboard new customers through pre-sales reports and custom analysis.

Technical Co-Founder, Cloth & Dagger, San Francisco, CA (3/2012 – 8/2013)

- Responsible for all frontend and backend development, infrastructure, and metrics, using Puppet, Python, Django, PostgreSQL, Redis, Backbone/JavaScript.
- Doubled the number of orders processed per day by creating custom inventory management software.
- Reduced returns by 30% by creating a predictive algorithm to identify optimal clothing choices.

Lead Software Engineer, Mingle Media Corporation, Palo Alto, CA (10/2009 – 10/2010)

- Second employee at a growing startup. Headed engineering team to launch and scale mingle.com
- Created fraud tools, a queuing system, automated caching layer, and analytic tools for conversion and usage tracking using Python, Django, JavaScript, and MySQL.

Freelance Web Developer, San Francisco, CA (1/2009 – 3/2012)

- Full stack Python, Django, and JavaScript web application development for corporate and non-profit clients.
- Responsible for drafting and implementing technical specifications, iterating upon user feedback, and deployment of wide-ranging consumer facing projects.

Intern, Numenta, Menlo Park, CA (6/2007 – 9/2008)

- Implemented proof of concepts for machine learning algorithms and technologies in Python and C++.
- Object recognition algorithms developed for partners successfully won in DARPA competition and evaluation.

HONORS AND AWARDS:

- Case Western Reserve University Provost Scholarship, 2002 – 2006
- Case Western Reserve University Department of Economics Robert N. Baird Award, 2006
- Case Western Reserve University Experiential Learning Fellowship Research Grant, 2004
- Case Western Reserve University SOURCE Research Grant, 2005
- SOURCE Undergraduate Research Symposium, First Place in Social Sciences, 2006