James Fulford
Harvard. Software Engineer. Entrepreneur.

Academics

Harvard University	Masters	Information Mgmt. Systems	4.00 GPA	2018 - 2021
Charter Oak State College	Bachelors	Business & I.T.	4.00 GPA	2018
Rivier University	Bachelors	Math and Comp. Sci.	3.99 GPA	2014 - 2017
Manchester Community College	Associates	Computer Science	4.00 GPA	2016
Massachusetts Institute of Technology	Program		Distinction	2014

Harvard University Intensive Coursework
- · Capstone: planned fictional hotel system migration with emphasis on risk management during migration
- · Text Analytics: trained and deployed LSTM-based NLP models for sentiment analysis with SpaCy, Flask
- · Cloud Computing with Azure: developed C# APIs and web apps with cloud native architectures

Highlights
- · ranked 99th percentile among graduate students on GRE math score
- · published statistical paper in peer-reviewed journal (ISSN 1559-9388), cataloged in Library of Congress

Experience

Consultant, eBay Systems, remote   2023 - now
Researched, architected, and advised Customer Support tech team on next-generation UI for 8k+ agents

Chief Executive Officer, An Ounce of Silver Technologies, Amherst NH   2017 - 2023
Researched and developed quantitative algorithmic trading strategies

Software Engineer, Cisco Systems, remote   2018 - 2021
Lead teams for 2 years on UI and API projects and products
- · headed 6 engineers to deliver webhooks at scale with Kafka, Kubernetes, Spring, Gatling
- · lead 2 engineers API Gateway with metering plus auth and rate limit policies with Istio, Lua, Grafana
- · ran 8 engineers to deliver quarter commits, fix 100+ bugs, and order backlog in 4 months
- · delivered API project 2 weeks early with Apache Flink, Elasticsearch, Spring, OAuth2, Scrum
- · assumed roles of Security Advocate, Scrum Master, and Product Owner across different projects
- · identified S1 vulnerabilities and coordinated closure across engineering silos
- · prototyped Tableau integration and AI-powered Call Recording Sentiment Analysis apps
- · used AngularJS, Angular 4, TypeScript, React, Jenkins, Go (golang), Node, Python

Software Engineer (Release), C Squared Systems, Auburn NH   2017 - 2018
Upgraded production servers at night while enhancing release processes with Python

Web Developer, Manchester Community College, Manchester NH, part-time   2017
Maintained college's Joomla CMS website

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Web Developer, Family Business, NH, part-time
Provided digital marketing services to clients, built social media scheduling integration with Python

Projects

Author, Medium   2019 - now
Wrote curated articles on modern software engineering: james-fulford.medium.com
- · philosophy of software testing and application to React Hooks
- · foray into the world of writing and deploying stock-trading algorithms
- · building better UX for long-input forms

Is It Shabbat? Web and Mobile Apps   2018 - 2023
Published iOS and web app using Expo (React Native)

Self-Driving Car Engineer Nanodegree, Udacity   2019
Wrote controller, ML, and computer vision projects with C++, Python, OpenCV, and Keras/Tensorflow