James Fulford
Harvard. Software Engineer. American.

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 Computer Science	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
- Agile Methodologies: was product owner and lead developer of my team, used Scrum, Django, React, Docker
- Text Analytics: trained and deployed LSTM-based NLP models for sentiment analysis with SpaCy, Flask
- Cloud Computing with Azure: developed C# APIs and webapps 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), catalogued in Library of Congress

Experience

Software Engineer, Cisco Systems, remote   2018 - now
Owned and coded 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
- prototyped web components micro frontend layout engine with third-party UI extensibility
- 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

Web Developer, Family Business, NH, part-time   2014 - 2017
Provided digital marketing services to clients, built social media scheduling integration with Python

Projects

Solomon, Web App   2020 - now
Launched webapp to predict future cashflows using React, Django, OAuth2: solomon.money

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 - now
Published iOS and web app using React Native: isitshabbat.net

Self-Driving Car Engineer Nanodegree, Udacity   2019
- integrated path planner, controller, and traffic light ML classifier ROS nodes in Python
- developed projects using computer vision and convolutional neural networks with Keras
- implemented extended Kalman filter to fuse LIDAR and RADAR tracking data in C++

jamesfulford.com
amateur board gamer, astronomer, and player of ukulele