

James Fulford

Harvard. Software Engineer. American.

Academics

Harvard University (online)	Masters	Information Mgmt. Systems	4.00 GPA	2018 - now
Charter Oak State College (online)	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

- Text Analytics: trained and deployed LSTM-based NLP models for sentiment analysis with SpaCy, Flask
- Deep Learning: trained convolutional and recurrent neural network for cracking CAPTCHA images
- Cloud Computing with Azure: developed C# APIs and webapps with true 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

Organized and lead execution of UI and API projects for WebEx Contact Center cloud offering

- lead 4-member team to deliver dependency-heavy API project in new Flink-based platform
- ordered backlog, delivered commits, lead 8-member team, and fixed 100+ bugs in a single quarter
- proposed and prototyped Tableau integration, matching API-first vision to customer needs
- integrated call recording, transcription, and sentiment analysis for internal "hack day" project
- identified Java Spring API S1 security bugs and coordinated closure across team silos
- prototyped web components micro frontend framework with third-party UI extensibility
- grew dev impact with end-to-end Cypress tests, a 90% drop in build-time, and Docker environments

Software Engineer, C Squared Systems, Auburn NH

2017 - 2018

Upgraded production servers while enhancing release processes with Python automation

Web Developer, Manchester Community College, Manchester NH

2017

Maintained college's Joomla CMS website

Web Developer, Family Business, New Hampshire

2014 - 2017

Provided digital marketing services to clients, built social media API integration with Python

Projects

Author, Medium

2019 - now

Wrote curated articles on modern software engineering: medium.com/@james.patrick.fulford

- [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

Deployed multi-featured 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++

Award-winning Tutor of Math, Programming, and Writing

2014 - 2017

Tutored students via college tutoring centers and private referrals, "made more sense than professor"

jamesfulford.com

amateur board gamer, astronomer, and player of ukulele