James Patrick Fulford
Harvard. Software Engineer. American. Leader.

Academics

Institution	Degree	Field	GPA	Years
Harvard University (online)	Masters	Info. Mgmt. Sys.	4.00 GPA	2018 - **now**
Charter Oak State College (online)	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
- Modern DevOps Techniques: AWS, GCP, CloudFormation, Ansible, Jenkins, Docker, Bash, Python
- Robotics, Autonomous Vehicles, and AI: Docker, ROS, Raspberry Pi, Python, Control Theory
- Cloud Computing with Microsoft Azure: C#, ASP.NET, EF, Swagger, Cloud Native architecture

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

Experience

Software Engineer, Cisco Systems, Boxborough MA   2018 - **now**
Developed user interface solutions for WebEx Contact Center cloud offering
- **Analyzer UI**: data visualization web app: Angular/Typescript, Java/Spring, MySQL
  - owned project execution and backlog, delivered committed features on time
  - lead team of eight (8) UI engineers around the globe using GitHub, Jira
  - initiated, delivered e2e testing framework using Cypress, Docker, and Jenkins
  - reduced dev-environment setup from days to minutes with Docker and bash scripting
- **Control Hub**: extensive administrator portal: AngularJS and Typescript
  - delivered critical onboarding functionality as a team for product launch deadline

Software Engineer, C Squared Systems, Auburn NH   2017 - 2018
Upgraded production servers while enhancing release processes and tooling
- initiated and delivered anomaly detection solution to test update quality in maintenance window
- created custom Python scripts to parse logs, serialize network trees, and prepare release reports
- introduced processes for tracking Ansible execution of one-time requests
- used: Ansible, Bash scripts, MySQL administration, SQL, Python scripting and development

Web Developer, Manchester Community College, Manchester NH   2017
Maintained college's Joomla CMS website using jQuery, Javascript, HTML, CSS

Web Developer, Family Business, Amherst NH   2014 - 2017
Delivered digital marketing services for high-profile clients using Python, Javascript, HTML, CSS
- reduced process from hours to seconds with social media API integration and automation

Projects

Published Writer, Javascript in Plain English, Medium   2019 - **now**
Wrote curated articles on front-end software engineering: medium.com/@james.patrick.fulford

Is It Shabbat? Web and Mobile Apps   2018 - **now**
Deployed multi-feature iOS and web apps using React Native, react-native-web, Redux: isitshabbat.net

Self-Driving Car Engineer Nanodegree, Udacity   2019
- integrated path planner, controller, and traffic light classification ROS nodes in Python
- delivered projects using computer vision (OpenCV2) and machine learning (Keras, TensorFlow)
- implemented extended Kalman filter to fuse LIDAR and RADAR object tracking data in C++