

# James Patrick Fulford

Harvard. Software Engineer. American. Leader.

## Academics

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

### 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

- 2017: ranked *99th percentile* among graduate students on GRE math score
- 2017: published in peer-reviewed journal (ISSN 1559-9388), cataloged in Library of Congress

## Experience

2018 - now	<b>Software Engineer, Cisco Systems, Foxborough MA</b> Developed user interface solutions for WebEx Contact Center cloud offering <ul style="list-style-type: none"><li>• <b>Analyzer UI:</b> data visualization web app: Angular/Typescript, Java/Spring, MySQL<ul style="list-style-type: none"><li>◦ owned and represented app across solution, delivered features on time</li><li>◦ lead team of eight (8) UI engineers around the globe using GitHub, Jira</li><li>◦ initiated, delivered e2e testing framework using Cypress, Docker, and Jenkins</li><li>◦ reduced dev-environment setup from days to minutes with Docker and bash scripting</li><li>◦ groomed backlog items in Jira with Product Manager, migrated team process to Scrum</li></ul></li><li>• <b>Control Hub:</b> extensive administrator portal: AngularJS and Typescript<ul style="list-style-type: none"><li>◦ delivered critical onboarding functionality as a team for product launch deadline</li></ul></li></ul>
2017 - 2018	<b>Software Engineer, C Squared Systems, Auburn NH</b> Upgraded production servers while enhancing release processes and tooling <ul style="list-style-type: none"><li>• initiated and delivered anomaly detection solution to test update quality in maintenance window</li><li>• created custom Python scripts to parse logs, serialize network trees, and prepare release reports</li><li>• introduced processes for tracking Ansible execution of one-time requests</li><li>• used: Ansible, Bash scripts, MySQL administration, SQL, Python scripting and development</li></ul>
2017	<b>Web Developer, Manchester Community College, Manchester NH</b> Maintained college's Joomla CMS website using jQuery, Javascript, HTML, CSS
2014 - 2017	<b>Web Developer, Family Business, Amherst NH</b> Delivered digital marketing services for high-profile clients using Python, Javascript, HTML, CSS <ul style="list-style-type: none"><li>• reduced process from hours to seconds with social media API integration and automation</li></ul>

## Projects

2019 - now	<b>Published Writer, Javascript in Plain English, Medium</b> Wrote curated articles on front-end software engineering: <a href="https://medium.com/@james.patrick.fulford">medium.com/@james.patrick.fulford</a>
2018 - now	<b>Is It Shabbat? Web and Mobile Apps</b> Deployed multi-feature iOS and web apps using React Native, react-native-web, Redux: <a href="https://isitshabbat.net">isitshabbat.net</a>
2019	<b>Self-Driving Car Engineer Nanodegree, Udacity</b> <ul style="list-style-type: none"><li>• integrated path planner, controller, and traffic light classification ROS nodes in Python</li><li>• delivered projects using computer vision (OpenCV2) and machine learning (Keras, TensorFlow)</li><li>• implemented extended Kalman filter to fuse LIDAR and RADAR object tracking data in C++</li></ul>

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