

JAMES PATRICK FULFORD

Harvard. American. Software Engineer.

ACADEMICS

Harvard University (online)	Masters	Info. Mgmt. Sys.	4.00 GPA	06 '18 - now
Charter Oak State College (online)	Bachelors	Business and I.T.	4.00 GPA	06 '18 - 12 '18
Rivier University	Bachelors	Math and Comp. Sci.	3.99 GPA	09 '14 - 05 '17
Manchester Community College	Associates	Computer Science	4.00 GPA	01 '16 - 12 '16
Virtual Learning Academy Charter School	High School		4.00 GPA	01 '15
Massachusetts Institute of Technology	Program		Distinction	07 '14 - 08 '14

Harvard University Intensive Coursework

- Modern DevOps Techniques: AWS EC2, CloudFormation, Ansible, Jenkins, GitLab 08 '19 - 12 '19
- Robotics, Autonomous Vehicles, and AI: Docker, ROS, Raspberry Pi, Python, Control Theory 07 '19 - 08 '19
- Cloud Computing with Microsoft Azure: C#, ASP.NET, EF, Swagger, Cloud Native architecture 01 '19 - 06 '19

Highlights

- ranked *99th percentile* among graduate students on GRE math score 06 '17
- published in peer-reviewed journal (ISSN 1559-9388), cataloged in Library of Congress 05 '17

EXPERIENCE

Software Engineer, Cisco Systems, Buxborough MA

10 '18 - **now**

Developed user interface solutions for WebEx Contact Center cloud offering

- **Analyzer UI**: data visualization web app: Angular/Typescript, Java/Spring, MySQL
 - owned and represented app across solution, delivered 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 bash scripting and Docker
 - groomed backlog items in Jira with Product Manager, migrated process to Scrum
- **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

11 '17 - 09 '18

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

01 '17 - 06 '17

Maintained college's Joomla CMS website using jQuery, Javascript, HTML, CSS

Web Developer, Family Business, Amherst NH

03 '14 - 05 '17

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

08 '19 - **now**

Wrote curated articles on front-end software engineering: medium.com/@james.patrick.fulford

Is It Shabbat? Web and Mobile Apps

08 '18 - **now**

Deployed multi-feature iOS and web apps using React Native, react-native-web, Redux: isitshabbat.net

Self-Driving Car Engineer Nanodegree, Udacity

01 '19 - 08 '19

- 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++

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