

JAMES PATRICK FULFORD

Harvard-educated American Software Engineer and Mathematician
specializing in Autonomous Systems

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

- 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

TRAINING

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++

EXPERIENCE

Software Engineer, Cisco Systems, Boxborough MA

10 '18 - **now**

Developed front-end solutions for WebEx Contact Center cloud offering

- Analyzer:** "killer" data visualization and analysis platform using Angular and Typescript
 - initiated and delivered UI integration testing framework using Cypress
 - reduced environment deploy time from days to minutes by enhancing Docker scripts and documentation
 - implemented critical authorization backend code using Java, Maven, and Artifactory
 - introduced new visualizations for business dashboards in existing codebase using Java and Angular
- Control Hub:** extensive administrator portal using AngularJS and Typescript
 - delivered critical onboarding functionality for product launch deadline
 - enhanced code coverage, structure, and modularity in shared modules

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 and reporting solution to test new version veracity in production
- created custom scripts to parse logs, serialize network trees, and prepare release reports
- introduced process 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 by delivering API integration to automate social media execution

INDEPENDENT PROJECT

Founder, An Ounce of Silver Technologies, Amherst NH

08 '18 - **now**

Oversaw, architected, and delivered software projects for clients and users.

- architected and deployed "Is It Shabbat?" React and React Native apps: isitshabbat.net

JAMESFULFORD.COM

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