

JAMES PATRICK FULFORD

Harvard-educated American Software Engineer and Mathematician
with interests 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

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 AND HACKATHONS

Self-Driving Car Nanodegree, Udacity

01 '19 - now

- ✓ learned and used computer vision, machine learning, and Bayesian techniques
- ✓ implemented extended Kalman filter to fuse LIDAR and RADAR data to track objects in C++
- ✓ used: Python, Keras, TensorFlow, CNNs, OpenCV2, C++

EXPERIENCE

Software Engineer, Cisco Systems, Boxborough MA

10 '18 - now

Developed front-end solutions for Cisco's WebEx Contact Center cloud offering

- **Analyzer:** "killer" data visualization and analysis platform
 - ✓ created new visualization types for custom business metrics dashboards
 - ✓ improved testing and type checking practices in codebase
 - ✓ used: Angular 5, Typescript, SCSS, RxJS, Karma/Jasmine Unit Testing
- **Control Hub:** administrator portal shared across multiple Cisco offerings
 - ✓ delivered critical onboarding functionality for product launch deadline
 - ✓ enhanced code coverage, structure, and modularity in shared modules
 - ✓ used: AngularJS, Typescript, SCSS, Karma/Jasmine Unit Testing, Advanced Git
- **Agent Desktop:** contact center agents' user interface
 - ✓ delivered early proof of concept for chat replacement
 - ✓ introduced unit testing framework to AngularJS codebase
 - ✓ used: AngularJS, Jenkins, Mocha/Sinon/Chai Unit Testing, CSS

Software Engineer, C Squared Systems, Auburn NH

11 '17 - 09 '18

Upgraded production servers while enhancing release processes and tooling

- ✓ architected streamlined solution to triage new data verification during maintenance windows
- ✓ created custom scripts to parse logs, serialize network trees, and prepare release reports
- ✓ introduced process around tracking Ansible playbook 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 website using jQuery, Javascript, HTML, CSS

Web Developer, Family Business, Amherst NH

03 '14 - 05 '17

Managed digital marketing services for high-profile customers

- ✓ delivered custom integration to automate social media posting schedules
- ✓ used: HTML, CSS, Javascript, Python, Web Design, Marketing

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?" web and iOS apps: isitshabbat.net
- ✓ used: React Native, React, Typescript, Redux, Jest, NPM, Git