James Patrick Fulford

Harvard-educated American Software Engineer and Mathematician
seeking entry-level opportunity in Autonomous Systems Engineering.

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 UI for Cisco's cloud contact center 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
- **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, 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, CSS

Software Engineer, C Squared Systems, Auburn NH 11 '17 - 09 '18
Upgraded production servers while enhancing release processes and tooling (3rd shift)
- ✓ 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 (part-time)

Web Developer, Family Business, Amherst NH 03 '14 - 05 '17
Managed digital marketing services for high-profile customers (part-time)
- ✓ 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

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