# James Patrick Fulford

Harvard-educated U.S.-Canadian Dual Citizen, Software Engineer, and Mathematician
seeking entry-level opportunity in Autonomous Systems Engineering.

## Academics

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

Highlights
- Perfect GRE math score (99th percentile *among graduate students*) — 06 '17
- Published in peer-reviewed journal (ISSN 1559-9388), cataloged at Library of Congress — 05 '17

## Training and Hackathons

**Autonomous Vehicle Nanodegree, Udacity**    01 '19 - present
Used Computer Vision, CNNs, and Sensor Fusion techniques
- Lane Line Detection: Computer Vision, Python, OpenCV2, Numpy
- Traffic Sign Classification: Convolutional Neural Networks, TensorFlow, Python
- Behavioral Cloning: Convolutional Neural Networks, Keras, Python
- Extended Kalman Filter: 2D sensor fusion matrix equations, C++

**Halite II Hackathon, Two Sigma**    11 '17 – 01 '18
Developed Python3 bot to compete against other bots in simple space conquest came.

## Experience

**Software Engineer, Cisco Systems, Boxborough MA**    10 '18 - present
Developed UI for Customer Journey Platform (cloud call center)
- Control Hub: *AngularJS, Typescript, Karma/Jasmine Unit Testing, Git*
- Agent Desktop: *AngularJS, Mocha/Sinon/Chai Unit Testing, Jenkins*

**Software Engineer, C Squared Systems, Auburn NH**    11 '17 - 09 '18
Released Network Device Monitoring Software, QA development
- QA Development: *Python, SQL, pandas*
- Release Engineering: *Ansible, Bash, Linux, MySQL Administration, Python Scripting*

**Web Developer, Manchester Community College, Manchester NH**    01 '17 - 06 '17
Maintained and upgraded college's LAMP-stack website (part-time)
- Data Integrity: *Python web scraping, SQL*
- CMS: *jQuery, Javascript, HTML, CSS, Joomla*

**Web Developer, Family Business, Amherst NH**    03 '14 - 05 '17
Assisted in executing digital marketing plans for high-profile customers (part-time)
- Web Design: *Javascript, HTML, CSS*
- Social Media Automation: *Python, REST API integration*

## Independent Project

**Founder, An Ounce of Silver Technologies, Amherst NH**    08 '18 - present
Oversaw, architected, and delivered software projects for clients.
- "Is It Shabbat?" monetized iOS and web app: *React-Native, React, Redux*. *isitshabbat.org*
- Projects and services at anounceofsilver.com. Hire us!

## Skill Sets

**Data:**    Python, pandas, Numpy, OpenCV2, TensorFlow + Keras, C/C++
**Front-end**:    React, React-Native, AngularJS, Typescript, jQuery, HTML5, CSS3, Javascript ES6+
**Back-end**:    Node, REST APIs, SQL
**Other**:    Linux, Ansible, NPM, Agile, CI/CD, Jenkins, Git