

# Mitchell Falkow

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## Education

### Rensselaer Polytechnic Institute

M.S. IN COMPUTER SCIENCE | B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Troy, NY

Aug 2017 – May 2021

- Concentrations in Artificial Intelligence, Data Science, and Operations Research
- GPA: 3.79
- Relevant Coursework:
  - Machine Learning, Natural Language Processing, Intro to A.I., Programming Languages, Data Structures, Algorithms, Principles of Software, Probability Theory, Operations Research (Linear Programming), Computational Optimization, Intro to Data Math, Linear Algebra, Multivariable Calculus

## Work Experience

### Royal Bank of Canada

Jersey City, NJ

TECHNOLOGY INFRASTRUCTURE INTERN

Jun 2019 – Aug 2019

- Designed and implemented a dashboard for monitoring internal RBC services' statuses in real-time, increasing transparency, and streamlining the process of identifying the cause of a service outage
- Constructed using full-stack technologies: React frontend with a Java Spring backend and REST API; Hibernate and MySQL database for persistence
- Co-ran an internal workshop providing an introduction to machine learning and data analysis

### The MITRE Corporation

Bedford, MA

SOFTWARE ENGINEERING INTERN

May 2018 – Aug 2018

- Prototyped a DevOps dashboard for visualizing security requirements for U.S. Airforce software development teams
- Developed two Java Spring Boot microservices and a Vue.js web-client in a multi-repository microservice architecture

### Smartling, Inc.

New York, NY

PRODUCT TEAM INTERN

Jul 2016 – Aug 2016

- Created a website for demonstrating Smartling's translation technology
- Front-end built in HTML/CSS and Javascript; RESTful backend consisting of Node.js and Express.js

## Technical Skills

### Languages:

Python, Java, Javascript, R, C++, SQL/MySQL

### Frameworks/Libraries:

SciPy, numpy, pandas, Java Spring, Hibernate, React, Vue.js, MongoDB, Node.js, Material UI/Bootstrap

### Concepts:

Machine Learning, Natural Language Processing, RESTful Architectures, Microservice Architectures

## Extracurriculars

### coding&&community

VOLUNTEER INSTRUCTOR

Troy, NY

Sep 2018 – Present

- Leading weekly introductory Python, Arduino, and web development lessons for local 6th-9th graders
- Volunteering for multiple outreach programs throughout year, including hackathon-style events

### Rensselaer Center for Open Source

MENTOR

Troy, NY

Jan 2018 – Dec 2019

- Managing weekly small-group meetings and assisting groups of students with project development

### Shorin-ryu Shidokan Karate

3RD DEGREE BLACKBELT, VOLUNTEER INSTRUCTOR

Mahwah, NJ

Jan 2008 – Present

- Instructing traditional Okinawan karate classes for children and adults