

# Mitchell Falkow

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## Education

### Rensselaer Polytechnic Institute

B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Troy, NY

Aug 2017 – May 2020

- GPA: 3.81
- Concentrations in Artificial Intelligence, Data Science, and Operations Research
- Current Coursework:
  - Machine Learning from Data, Probability Theory, Programming Languages, Math Models of Operations Research
- Relevant Coursework:
  - Natural Language Processing, Intro to A.I., Intro to Data Math, Computational Optimization, Intro to Algorithms, Principles of Software, Linear Algebra, Data Structures, Multivariable Calculus

## Technical Skills

**Languages:** Java, Javascript, Python, R, C++, SQL/MySQL  
**Frameworks/Libraries:** Java Spring Boot, React, Vue.js, scikit-learn, MongoDB, Node.js, Material UI, Bootstrap  
**Concepts:** REST APIs, Microservice Architecture, Machine Learning, Natural Language Processing  
**Other:** Git, Unix, Windows

## Work Experience

### Royal Bank of Canada

Jersey City, NJ

TECHNOLOGY INFRASTRUCTURE INTERN

Jun 2019 – Aug 2019

- Designed a dashboard for monitoring internal RBC services' statuses in real-time, providing greater overall transparency, and streamlining the process of identifying the cause of problems with a service's functionality
- Constructed using full-stack technologies: a React front-end with a Java Spring Boot backend with REST API 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
- Used HTML/CSS and Javascript, with Node.js and Express.js for RESTful architecture, and Bootstrap 3.0 for styling

## Extracurriculars

### coding&community

Troy, NY

VOLUNTEER INSTRUCTOR

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

Troy, NY

MENTOR

Jan 2018 – Present

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

### Shorin-ryu Shidokan Karate

Mahwah, NJ

3RD DEGREE BLACKBELT, VOLUNTEER INSTRUCTOR

Jan 2008 – Present

- Instructing traditional Okinawan karate classes for children and adults