# Mitchell Falkow

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## Education

**Rensselaer Polytechnic Institute**                                                                *Troy, NY*

M.S. in Computer Science | B.S. in Computer Science and Mathematics        *Aug 2017 – May 2020 [B.S.]*
*May 2021 [M.S.]*

- GPA: 3.81
- Concentrations in Artificial Intelligence, Data Science, and 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, 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 persistance
- 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 to demonstrate 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

**Rensselaer Center for Open Source**                                                              *Troy, NY*
Mentor                                                                                       *Jan 2018 – Present*

- Handling responsibilities such as leading small group meetings and assisting students with project development and management.

**coding&&community**                                                                            *Troy, NY*
Volunteer Instructor                                                                         *Sep 2018 – Present*

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

**Shorin-ryu Shidokan Karate**                                                                   *Mahwah, NJ*
3rd Degree Blackbelt, Volunteer Instructor                                                   *January 2008 – Present*

- Instructing traditional Okinawan karate classes for children and adults