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 2021*
- 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

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, providing greater overall transparency, and streamlining the process of identifying the cause of service's functionality problems
- Constructed using full-stack technologies: React front-end with Java Spring Boot backend with REST API; 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 back-end built with Node.js and Express.js

Technical Skills

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

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