Mitchell Falkow

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Education

Rensselaer Polytechnic Institute

Troy, NY

MS IN COMPUTER SCIENCE, BS IN COMPUTER SCIENCE & MATHEMATICS

2017 – 2021

- GPA: 3.79
- Concentrations in Artificial Intelligence, Machine Learning, and Data Science
- Relevant Coursework: Machine Learning, Natural Language Processing, Data Mathematics, Computational Optimization, Graph Theory

Work Experience

Royal Bank of Canada

Jersey City, NJ

AMPLIFY SUMMER ANALYST - DATA SCIENTIST

Jun 2020 - Aug 2020

- · Developed a comprehensive solution for enhancing the quality of incident resolution data and increasing support team efficiency
- Designed a microservice architecture for recommending potention resolutions by leveraging Natural Language Processing (NLP) and technologies such as voice transcription
- Implemented a Python (Flask) microservice that integrates NLP techniques such as keyword extraction, intent classification, and summarization in order to retrieve related incidents and their solutions from an Elasticsearch database
- Finalist in company-wide intern team competition

Royal Bank of Canada

Jersey City, NJ

TECHNOLOGY INFRASTRUCTURE INTERN

Jun 2019 – Aug 2019

- · Constructed a web application for real-time monitoring of internal service statuses and improving the identification of outage causes
- Produced a full-stack solution with React is frontend, Java (Spring) for backend REST API, and MySQL database
- Co-ran an internal workshop on 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) microservices and a Vue.js web-client in a multi-repository microservice architecture

Research Experience

Tetherless World Constellation

Troy, NY

GRADUATE RESEARCHER

Jan 2020 - Present

- · Exploring the use of domain-specific knowledge graph entities for building OWL structures that represent attribute-based policies
- Developing a domain-agnostic policy tool in support of Master's thesis () hansidm/policy-tool)

Technical Skills_____

Languages: Python, JavaScript, Java, SQL, NoSQL (Elasticsearch, MongoDB, SPARQL) **Python Modules:** NumPy, SciPy, scikit-learn, pandas, Flask, Keras/Tensorflow, rdflib

JavaScript Frameworks: React.js, Material-UI, Node.js, Express.js, Vue.js

Java Frameworks: Spring, Hibernate, Lombok

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

Shorin-ryu Shidokan Karate

Mahwah, NJ Jan 2008 – Present

3RD DEGREE BLACKBELT, VOLUNTEER INSTRUCTOR

Instructing traditional Okinawan karate classes for children and adults