

Sam Silverstein

TECHNICAL SKILLS

PROGRAMMING LANGUAGES: Java, Python, MongoDB, SQL, Javascript

Operating Systems: Windows, Linux

Software Packages: Spring/Springboot, Maven, Numpy, Pandas, Angular, GIT

EDUCATION

Honours Specialization in Computer Science

June 2021

Western University, London, Ontario

CGPA: 3.7

Projects

Citi Direct Next-Gen

- Worked with scrum team to develop new features for Citi Direct Next Gen application
- Develop distributed systems exposed via various microservices
- Worked with angular and internal oc-framework to implement front end design features, according to UX specifications
- Implemented new functionality for multiple REST APIs with Springboot MVC design pattern
- Adhered to unit testing standards, ensuring minimum 90% coverage for newly implemented features

Log4j Dashboard (Citi Internal Project)

- Created in house application to reduce blindscrolling when debugging microservices, as part of a process improvement project
- Oversaw the entirety of the project, including identifying stakeholders, risk mitigation, jira planning and all aspects of development
- Redirected logging messages from given microservice to be managed and saved on local computer
- Designed and implemented a front end dashboard using Angular framework to display logging information dynamically
- Allow users to filter logging responses by microservices and logging level
- Performed unit testing to ensure high quality code

Algorithmic Analysis of Musical Texture, Python/Jupyter Notebook

- Used a data-driven approach to collecting information from .mxl files
- Improve readability and reusability by organizing and calculating rhythmic and harmonic information into Pandas DataFrames
- Used Principal Component Analysis to reduce dimensionality while extracting maximum information
- Implemented distance matrix, in order to compare similarities between parts in a song
- Presented software in joint conference between Western and McMaster University

Natural Language Processing Sentiment Analysis

- Created word embeddings from a corpus of 50,000 reviews from IMDB
- Used the Skip-Gram model and trained a neural network to create complex word embeddings based on context
- Used embeddings to create document vectors, to be used for classification on another neural network for semantic analysis

WORK EXPERIENCE

ICG Analyst (Full Stack) - TTS, Citi Group

July 2021 - Present

- Worked "CitiDirect NextGen" an online banking platform intended for businesses to manage transactions across international accounts
- Application's clients include multinational fortune 500 companies
- Adhered to agile scrum methodology, including user story grooming, sprint planning and sprint retrospectives
- Regularly participated in university recruiting events, and have been assigned a mentorship role to summer interns

ICG Summer Technology Analyst, Citi Group

Summer 2020

- Part of five week-long summer development/analyst program at CitiGroup Mississauga
- Covered four sprints including, Data Visualization/Wrangling, Cloud Engineering, UX Design, security
- Regularly learned industry standards and gained first-hand experience solving financial problems with analytics

Personal Interests: Basketball analytics, Tennis, Cryptocurrency, Reading Science fiction/fantasy