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Sam Silverstein

TECHNICAL SKILLS

Programming Languages: Java, Python, MongoDB, SQL, Javascript
Technologies: Spring/Springboot, Maven, Numpy, Pandas, Angular, GIT
Operating Systems: Windows, Linux

EDUCATION

Honours Specialization in Computer Science   *June 2021*
Western University, London, Ontario
CGPA: 3.7
Relevant Courses: Data Structures and Algorithms, Databases, Data Science, Unstructured Data

Projects

Log4j Dashboard (Citi Internal Project)

- Created in house application to reduce blindscrolling when debugging microservices, as part of a process improvement project
- Spearheaded 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 dashboard using Angular framework to display logging information dynamically, project tasks include risk assessment, user story grooming, and all aspects of development

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, followed by a Q&A 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

Full Stack Developer – Trade Treasury Solutions, Citigroup   *July 2021 – Present*

- Reduced user pain points by implementing new features, including navigation, notifications and identity management
- Oversaw and designed user interface features across various user journeys for both front and back end
- Developed features end to end, using AngularJS and Java SpringBoot
- Implemented bug fixes and and features for Citidirect platform, including code coverage reports, maintaining a unit testing coverage of at least 90%
- Designed and implemented a internal front end dashboard using Angular framework to display logging information dynamically

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