INBAR OFER

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EXPERIENCE

Biomedical Data Science Co-op Jun. 2023 - Dec. 2023

Cerevel Therapeutics

- Leveraged PySpark and Pandas to efficiently process large datasets and uncover relationships via network analysis and visualization.
- Implemented version-controlled Jupyter Notebooks, evolving into user-friendly Streamlit applications for enhanced usability.
- Integrated disparate data types via various sources, including GraphQL and REST APIs, to identify optimal disease indications for drugs in the pipeline.
- Architected ETL pipelines for data extraction, transformation, and loading into a Neo4j database using best practices like test-driven development, detailed logging, and data validation; focus on data quality and system reliability ensured seamless usage for downstream applications.
- Effectively communicated complex data engineering and data science projects to company stakeholders, bridging technical and business domains to illustrate the tangible business value of my work.

Teaching Assistant/Fellow (TA) Sep. 2020 - Jul. 2023

Northeastern University

- Fundamentals of Computer Science II and Object-Oriented Design
    - Coached 100+ students on class material and approaches for solving homework problems during one-on-one office hours.
    - Provided constructive feedback on Java homework assignments to track students' progress.
- Organic Chemistry I and Algorithms & Data
    - Devised original weekly recitation lesson plans based on important concepts from lecture.
    - Reviewed key ideas and guided 200+ students through practice problems in Zoom and in-person recitations.

Data Engineering Co-op Jun. 2021 - Dec. 2021

FogPharma

- Developed interactive R Shiny applications to streamline analysis workflows for scientists across research domains.
- Improved user onboarding experience of internal enterprise search platform by creating guided tours and tooltips using Shepherd.js.
- Enabled persistence and synchronization of user settings across devices by implementing Vuex state management with ElasticSearch on the backend of web app.
- Designed and implemented scalable and secure cloud-based solutions using AWS services such as EC2 and S3; integrated Jenkins for automated CI/CD to improve efficiency and reliability.

PROJECTS

More projects can be found in my portfolio.

Uno Feature, Covey.town Oct. 2023 - Dec. 2023

CS 4530: Fundamentals of Software Engineering

- Spearheaded the integration of the Uno card game into the existing Covey.town platform using TypeScript, React, and Node.js.
- Wrote and maintained scalable and performant code using a modular design and resource-efficient algorithms and data structures.
- Employed test-driven development techniques using Jest, leading to a decrease in bugs and an increase in code quality.
- Actively contributed to the project's growth and core backend systems by suggesting and implementing significant improvements.
- Demonstrated proficiency in debugging complex production issues across various services and levels of the stack.

EDUCATION

Candidate for MS, Computer Science Jan. 2024 - Present

Georgia Institute of Technology, College of Computing

BS, Computer Science and Behavioral Neuroscience (Minor: Ethics) Aug. 2019 - Dec. 2023

Northeastern University, Khoury College of Computer Sciences, Honors Program **GPA: 3.91/4.0; *summa cum laude***

Special Achievements: Honors Early Research Award, President's Award, Nu Rho Psi Honors Society, PEAK Base Camp Award, Dean's List

Course Highlights: Algorithms and Data, Object-Oriented Design, Database Design, Software Engineering, Computer Systems

TECHNICAL PROFICIENCIES

Languages, OS, Frameworks: Python, Java, Bash, Unix, Racket, R, SQL, Cypher, TypeScript, C, Assembly, Node.js

Softwares & Platforms: Git, Neo4j, VS Code, Google Colab, Jenkins, Excel, IntelliJ, Jupyter Notebook, Tableau, Docker