### **INBAR OFER**

148 Broadway, Apt 2, Somerville, MA | (203) 273-7368 | Portfolio: inbar-ofer.com | ofer.i@northeastern.edu | linkedin.com/in/inbarofer

#### **EDUCATION**

# MS, Computer Science (Admitted)

Georgia Institute of Technology, College of Computing

Starting Jan. 2024

Aug. 2019 - Dec. 2023

GPA: 3.95/4.0

# BS, Computer Science and Behavioral Neuroscience (Minor: Ethics)

Northeastern University, Khoury College of Computer Sciences, Honors Program

Special Achievements: Summa Cum Laude, Honors Early Research Award (Molecular Biology), 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, Artificial Intelligence, Software Engineering,

Genetics & Molecular Biology, Organic Chemistry I & II, Biochemistry

#### **EXPERIENCE**

# Biomedical Data Science Co-op

Cerevel Therapeutics

Jun. 2023 - Present

- Integrated data from multiple databases and APIs, like OpenTargets, to identify optimal disease targets for drug development, bridging current and future research insights
- Leveraged PySpark and Pandas dataframes for data manipulation, and used network graph models to visualize complex relationships between gene targets and diseases
- Initiated projects with Python notebook prototypes, subsequently developing intuitive and user-friendly Streamlit applications that enable disease- or gene-specific queries
- Engineered a robust Neo4j database aggregating data on genes, diseases, and companies, focusing on best practices in data cleaning, batch import optimization, and detailed activity logging

# 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 best practices for solving homework problems during one-on-one office hours
  - o Provided constructive feedback on Java homework assignments to track students' progress
- Organic Chemistry I and Algorithms & Data
  - O Devised original weekly recitation lesson plans based on important concepts from lecture
  - Reviewed key ideas and guide 200+ students through practice problems in Zoom and in-person recitations

## Volunteer Research Assistant Oct. 2019 - Present

Chai Lab

- Worked on developing and optimizing a detection method for GHB, a recreational and date rape drug, using two enzymes obtained by PCR and expressed in *E. coli* under the supervision of Dr. Yunrong Chai
- Established a computational platform project in Python to identify bacterial enzymes that break down psychoactive drugs
  - o Extract and process data from the Protein Data Bank (PDB) API
  - Predict binding affinity between the drug and bacterial enzymes using DeepDTAF

Data Engineering Co-op

Jun. 2021 - Dec. 2021

FogPharma

- Built applications using R Shiny to display and analyze quantitative biological and chemical data, improving scientist workflows
- Designed and implemented guided tour and tooltips plugin for internal enterprise search in Javascript using Shepherd.js, streamlining onboarding for the new platform
- Enabled maintenance of internal app preferences across devices and browsers using Vuex and ElasticSearch
- Designed and implemented scalable and secure cloud-based solutions using AWS services such as EC2 and S3, enabling efficient and reliable processing and storage of data

# **TECHNICAL PROFICIENCIES**

**Programming Languages & OS:** Python, Java, Bash, Unix, HTML, Racket, R, Kotlin, SQL, Cypher C, Assembly, JavaScript **Softwares and Platforms:** Git, LaTeX, Neo4j, Adobe Creative Suite (XD, Photoshop, Illustrator), Android Studio, Google Colab