# Jabir Chowdhury

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## EDUCATION

**Hunter College, City University of New York (CUNY)** *B.A. in Computer Science*                    May 2023
*Relevant Courses:* Data Structures & Algorithms, Software Engineering, Deep Learning, Linear Algebra

## TECHNICAL SKILLS

**Languages**: Python, Java, C++, JavaScript, TypeScript, Swift, SQL
**Software**: AWS, GCP, LangChain, Spring Boot, NodeJS, React, Angular, MongoDB, MySQL, Docker, Kubernetes

## EXPERIENCE

**Software Engineer Co-op**                                                           Jan 2024 – Present
*DataAnnotation*                                                                      *New York, NY*
- Resolved **15+** UI issues on the client's LLM validation platform, enhancing user experience and interface functionality, leading to a **30%** decrease in user-reported issues and support tickets
- Developed an automated notification system to alert users during maintenance periods for the client's LLM, resulting in a **90%** reduction in user inquiries
- Implemented a task duration monitoring system for **500+** human validators, enabling the client to identify under-performing validators, resulting in **$10,000+** saved in payments due to time discrepancies

**Software Engineer Intern**                                                          Aug – Dec 2022
*NASA*                                                                                *Greenbelt, MD*
- Achieved over **90%** efficiency in identifying intersections in geospatial data from multiple satellites with varying resolutions by automating the process using Python, saving scientists **10+** minutes per analysis
- Enhanced data accessibility for scientists by developing Python scripts to automate the merging and processing of satellite datasets, reducing data requests by **3x**
- Built a search system for a satellite database, reducing data retrieval time by **5+** minutes, achieving a user engagement rate of **80%**, and enabling scientists to quickly access and analyze satellite imagery

**Software Engineer Fellow**                                                          May – Aug 2022
*Headstarter*                                                                         *New York, NY*
- Selected for a full-stack JavaScript + AWS program as one of **50** fellows out of 700+ applicants
- Built serverless APIs with at least **99.95%** uptime using AWS Lambda and managed data with Dynamo DB
- Leveraged knowledge: Git workflows, testing, CI/CD, agile development, MVC pattern, APIs/Microservices

**Software Engineer Intern**                                                          Jun – Sep 2021
*The MITRE Corporation*                                                               *McLean, VA*
- Implemented an analytical system in Python to measure **3+** key metrics of a social media data pipeline, contributing to a **20%** increase in hate speech detection accuracy
- Integrated **4+** NLP microservices into the pipeline to improve hate speech discovery, while maintaining a time efficiency loss of under **10%** through the utilization of multi-threading
- Developed data transfer software to facilitate the migration of document-based data into a graph database, enabling the community detection of **100,000+** social media users

## PERSONAL PROJECTS

**AdventChess** *(100 hours)* <u>GitHub</u> | <u>Hosted</u> | *Java, Spring Boot, JUnit, Angular, TypeScript*       Jan – Apr 2024
- Created a full-stack web application with Spring Boot Websockets and Angular frontend
- Built a Java chess engine with complex game-play logic
- Implemented concurrent matchmaking using threads enabling multiple simultaneous game pairings
- Established a robust time-tracking system to monitor player turns and game duration

**MealMap** *(50 hours)* <u>GitHub</u> | *Swift, UIKit, Core Data*                                    May 2023 – Present
- Developed an iOS application using Swift and Edamam API
- Implemented feature to save recipes using CoreData within an integrated meal calendar
- Built a daily Calorie tracker and time-tracking functionality tailored for cross-time zone meal management