Jainam Shah

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Education

New Jersey Institute of Technology (Albert Dorman Honors College) September 2023 – May 2026
Bachelor of Science in Computer Science, minor in Mathematics *Newark, NJ*

• **GPA: 3.91/4.0**
• **Awards:** Honors Residential Scholarship, Full tuition Honors Merit Scholarship, Dean's List
• **Coursework:** Probability and Statistics, Data Structures & Algorithms, Discrete Math, Compiler Design, Web Development, Introduction to Generative AI, Intensive Programming in Linux, Database Management, Multivariable Calculus, Physics III, Linear Algebra, Data Science

Skills and Certifications

Softwares: Anaconda, WSL, LaTex, Xampp, Minitab, Git, Visual Studios, Postman, Jira, Jupyter Notebooks, Docker, OpenEHR, GraphQL
Soft Skills: Problem-solving, Team management, Public speaking, Adaptability, Agility, Avid learning, Innovative, Proactive
Technical Skills: Python, Java, C++, HTML, CSS, JavaScript, jQuery, SQL, CQL, PHP, Matlab, Linux, Golang, Postgres, ScyllaDB
Tech Familiarities: Numpy, Pandas, Matplotlib, Scikit-learn, SciPy, Django, Data Analysis, Agile software development, Scrum framework
Certifications: Intro to Python (MITx), Intro to C++ (IBM), Cyber Security Boot Camp (Stetson University), Intro to Matlab (MathWorks), ML with Python (IBM)

Professional Experience

Tech for Good Inc. July 2024 – Present
Software Engineering Intern *Boston, MA*

- Engineered an Electronic Medical Records (EMR) system using Golang, available to rural hospitals in underprivileged areas. This will be pivotal in digitizing patient records (rather than being paper-based), making them increasingly accessible

Big Data Analytics Laboratory / Office of Naval Research February 2024 – Present
Data Science Intern / Honors Research Fellow and Grant Recipient *Newark, NJ*

- Leveraged Machine Learning and Data Science skills to contribute to the **US Navy's PASS project,** which aims to predict the occurrence of **ship maintenance delays** so that resources can be adequately allocated for it
- Reduced predictive errors to **14 days** by improving model accuracy by **80%**
- Decreased financial and operational costs within the US Navy by over **1 billion dollars**
- Conducted advanced data analysis on wide and obfuscated classified data with over **15k features** to produce recommendations **on model functionality** for **high-ranking US Navy officials**
- Improved model generalization to the US Navy's unseen classified data and **decreased model overfitting** by **20%**
- Increased accuracy by an additional **10%** with a custom algorithm harmonizing ML output

Structural Analysis of Biomedical Ontologies Center (SABOC) January 2024 – May 2024
Data Science Intern for Bioinformatics Ph.D. Candidate *Newark, NJ*

- Implemented NumPy to extract combinations from over **37 million** citations in the PubMed database to find different **Social Determinants of Health** (SDoH).
- Employed NumPy and Pandas to filter text file redundancies and create a unique list SDoH, increasing the ontology by **15%**
- Harnessed **Unified Medical Language System (UMLS) API** to gather over **20,000** synonyms for existing subject/predicate combinations from **over 12** SemMed Databases, enlarging the ontology by incorporating semantically similar matches

Activities & Leadership Experience

Lyra- *Educator* December 2023 - Present

- Trained local high school students in Newark about various STEM and career development concepts through weekly classes.
- Spearheaded weekly curriculum and teaching procedure review with Lyra Administrators.

Investment Fund-*Analyst* December 2023 - Present

- Conducted DCF analyses for Fortune 500 companies to assess financial health and investment potential, incorporating industry trends.

Projects *(other projects are located on GitHub)*

Simple Fortran 95-like compiler - *C++, Bash*

- Built a compiler (lexical analyzer, parser, and interpreter) to read and understand a Simple Fortran 95-like language

Outdoor Weather and Clothing - *CSS, JS, HTML, PHP, SQL*

- Developed PHP for form validation and user authentication, boosting data accuracy and security
- Applied SQL for managing product data, streamlining queries, updates, and deletions, and enhancing efficiency
- Engineered a polished, user-centric interface using CSS, JS, and HTML, significantly enhancing user interaction and satisfaction

Stock-Market Analyzer - *Django, CSS, HTML, Twelvedata-API, SQLite*

- Developed a comprehensive user-specific portfolio using Django, enabling stock management and real-time(fictitious) transactions
- Queried SQLite database to retrieve and display user stock holdings and financial information efficiently
- Integrated Twelvedata-API for real-time stock prices and historical price graphs based on user-defined periods
- Implemented robust authentication protocols to ensure secure access to sensitive user information