Mohammad Ismail Sayyed

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EDUCATION

University of Massachusetts Amherst — Amherst, MA
Bachelor of Science in Computer Science, **GPA:** 3.58/4.0 — May 2025
Related Coursework: Advanced Algorithms, Software Engineering, Search Engines, Information Systems, Databases Management, Operating Systems, Machine Learning, Web Development, Systems for Data Science, Computer Networks

EXPERIENCE

Phibro Animal Health Corporation — Sep. 2024 – Dec. 2024
Full Stack Developer Intern — Teaneck, NJ
- Developed and integrated a custom event tracking solution using **gtag.js**, enabling detailed monitoring and logging of user interactions with the company website.
- Engineered a document search application, optimizing data flow and user experience.
- Continued testing and development of new features for the internal IT Service Request Application.

Phibro Animal Health Corporation — June 2024 – August 2024
Full Stack Developer Intern (CRM Intern) — Teaneck, NJ
- Enhanced the internal IT Service Request Application using **React**, **TypeScript**, and **SharePoint Framework (SPFx)**, improving functionality and streamlining workflows.
- Used the Girvan-Newman algorithm in **Python** to analyze six years of sales data, identifying key product-customer relationships and uncovering new sales opportunities.
- Ensured data integrity in Microsoft Dynamics 365 using SQL-like queries, maintaining accurate and reliable information.

Progency — June 2023 – Aug. 2023
Software Engineer Intern — Remote
- Migrated a website from **React** and **Node.js** to **Next.js** and **TypeScript**, improving performance and maintainability.
- Reduced page load time by **40%** and increased organic search traffic by **30%** through server-side rendering with **Next.js**.
- Conducted comprehensive testing with **Jest (unit tests)**, **Cypress (end-to-end tests)**, and **Postman (API testing)**, ensuring high reliability and quality of the application.

Calculus 2 Learning Assistant — Jan. 2022 - Apr. 2022
Penn State University — State College, PA
- Hosted weekly office hours to tutor 40+ undergraduate students, assisting a professor with teaching duties.

PROJECTS

AI Study App | React, Express.js, SQLite, Gemini API — GITHUB LINK
- Developed a full-stack AI-powered web application that transforms class materials into personalized study aids, by integrating the **Google Gemini 1.5 model**, through automated quiz generation, summaries, and tailored study plans.
- Architected a scalable backend system, utilizing **JavaScript** and **RESTful API** design to efficiently process PDF uploads and AI-driven content generation, streamlining study material customization and progress tracking.

AI Chess Engine | Python, Pygame — GITHUB LINK
- Developed a chess engine using **Python**, Pygame and integrated artificial intelligence that looks four moves ahead.
- Increased efficiency of the artificial intelligence algorithm runtime by about **80%** with the help of clever heuristic techniques and **Alpha-Beta Pruning search Algorithm**.

Notify Me | Python, Beautiful Soup, AWS EC2 — GITHUB LINK
- Scraped GitHub repositories for job postings by developing a **Python** script, deployed on an **AWS EC2** instance.
- Implemented a real-time email notification system using **Python's smtplib**, enhancing user engagement by providing immediate updates on new job postings.

DocuView | React, Java, Spring Boot, MySQL — GITHUB LINK
- Developed a scalable web application using **React**, **Spring Boot**, **MySQL**, and **Google Cloud Drive FileShare**, enabling secure document search, retrieval, and download for authorized users.
- Implemented **JWT** token-based authentication in **Spring Boot** to secure access to protected APIs.

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C/C++, SQL, NoSQL
Frameworks & Libraries: React, Next.js, Redux, Node.js, Express, Spring Boot, PostgreSQL, MongoDB, MySQL, Panda
Tools & Technologies: Git, Linux, AWS, EC2, S3, GCP, RESTful APIs, Cypress, Selenium, Psql, Postman