

Mohammad Ismail Sayyed

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EDUCATION

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

Phibro Animal Health Corporation Full Stack Developer Intern	Sep. 2024 – Dec. 2024 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 Full Stack Developer Intern (CRM Intern)	June 2024 – August 2024 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.	
Progeny Software Engineer Intern	June 2023 – Aug. 2023 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 Penn State University	Jan. 2022 - Apr. 2022 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, BeautifulSoup, 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, Pandas
Tools & Technologies: Git, Linux, AWS, EC2, S3, GCP, RESTful APIs, Cypress, Selenium, Psycopg2, Postman