

Mirza Mohammed Baig

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EDUCATION

Georgia Institute of Technology (Georgia Tech)

Graduating May 2026

Master's Degree of Science in Computer Science & Machine Learning

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Web Programming, Deep Learning

SKILLS

Programming: Proficient: UI/UX (4yrs), Python (3yrs) **Intermediate:** Java Development (2yrs), JavaScript (2yrs), SQL Queries (2yrs), C/C++ (2yrs) **Beginner:** PHP (1yr), TypeScript (1yr), Tailwind (1yr)

Technologies: AWS, GCP, Langchain, Docker, Kubernetes, Terraform, MySQL, TensorFlow

EXPERIENCE

AI/ML Engineer Intern - Crescent Technology

Jan 2024 - Present

- Developed custom AI/ML solutions for the company and our clients, **enhancing client operations by 30%** and **increasing lead generation by 400%** through AI automation using SalesQL & LeadIQ APIs
- Led the successful development of an **NLP-based chatbot** using various **AWS services** (EC2, Lambda, S3), **enabling real-time data retrieval** and significantly **improving customer support efficiency by 25%**
- Implemented advanced machine learning algorithms to analyze user behavior patterns, **reducing customer churn by 20%** and **optimizing personalized marketing strategies** for increased engagement

Software Engineering Fellow - Headstarter AI

July 2024 - Sept 2024

- Successfully developed & deployed **6 AI-driven projects** within **7 weeks** using React.js, Next.js, UI/UX,, AWS (EC2, S3, Bedrock), and Pinecone, **increasing deployment speed by 30%** via agile methodologies
- Collaborated with a team of 4 to create an **AI-based customer support agent** with Next.js & OpenAI, **boosting response accuracy by 40%** & incorporating a custom RAG pipeline from a knowledge base
- Participated in weekly sessions with **industry experts** from **Google, Y Combinator, Stanford, Amazon, & venture-backed startups**, enhancing professional growth & industry knowledge via continuous learning

PROJECTS

TaskMaster: An AI-Driven Productivity and Task Management App

September 2024

- Developed a full-stack productivity app with Next.js, React.js, and TypeScript, **increasing user engagement by 30%** and optimizing backend processes with Convex and Clerk, **reducing maintenance by 40%**

Crescent CloudLog: AI Chatbot for Crescent Technology eLogbook

August 2024

- Led development of chatbot for Crescent Technology's eLogbook system, **improving operational efficiency by 40%** by utilizing AWS (EC2, S3, Bedrock) and Pinecone to manage vectorized data storage and retrieval
- Implemented advanced **NLP models** with Python and Flask, automating intelligent query handling and **reducing response time by 60%**, significantly enhancing real-time information retrieval and user interaction

DataDigz: An AI-Powered Web Scraper for Headstarter Hiring Hackathon

August 2024

- Created an **AI-powered web scraper** for Olostep that accepts any URL and generates a link to display all scraped data, **enhancing data extraction and visualization efficiency** for business insights
- Built scalable backend systems & seamlessly integrated CI/CD pipelines, significantly **improving deployment efficiency by 30%** & **reducing data retrieval times by 50%** via optimized data processing

CloutCraft: AI-Powered LinkedIn Growth Assistant

July 2024

- **Developed** and closely collaborated with a team of 4 SWEs to create an innovative AI-powered LinkedIn post assistant, **boosting professional networking and recruiter attention**, and **growing my LinkedIn following by 170%** by crafting tailored, **high-impact content for software engineers**

AWS Certified Cloud Practitioner

May 2023

- Gained foundational **AWS knowledge & cloud computing skills** via hands-on exercises and passing exam