Mohammed Abdul Hadi

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EDUCATION

University of Illinois Chicago (UIC)- Chicago, IL **Expected: May 2026**
Master of Science in Computer Science **GPA: 4.0/4.0**

OSMANIA UNIVERSITY (OU)- Hyderabad, India **July 2024**
Bachelor of Engineering in Computer Science and Engineering **GPA: 3.5/4.0**

SKILLS

- **Languages**: Python, JavaScript/TypeScript, C/C++, Java, SQL, MATLAB, R
- **Frameworks & Libraries**: React (MUI, Tailwind, Bootstrap), Node.js/Express, LangChain
- **Databases:** MySQL, MongoDB, DynamoDB, PostgreSQL, SupaBase
- **DevOps & Tools:** Git/GitHub, Docker, Jenkins, Linux, CLI, Agile/Scrum, Confluence, Slack
- **Core Concepts**: OOP, Data Structures & Algorithms, OS, Networking, DBMS, ML/AI, NLP
- **Cloud (AWS):** EC2, S3, Lambda, RDS, CloudWatch, Route 53

PROFESSIONAL EXPERIENCE

UIC College of Engineering, Chicago, IL **June 2025 – Present**
Software Engineer – Graduate Assistant

- Improve applicant and staff accuracy by 20% as measured through usability resolution by upgrading the undergraduate hiring application's frontend and developing a Business Manager module.
- Streamline workflows by containerizing with Docker, ensuring consistency and cutting developer setup time by 25%.
- Enhance reporting efficiency for student employees by reducing manual entry through automated submission and approval workflows by designing workflow logic, testing workflows, and ensuring functionality of the timesheet application.
- Improve system reliability and security by deploying an SSL certificate and validating VM availability/application mapping via SSH, while gaining exposure to Docker for containerized environments.

UI HEALTH, Chicago, IL **April 2025 – August 2025**
CS Graduate Research Assistant

- Conducted 2D and 3D Digital Image Correlation experiments on spine segments.
- Enhanced biomechanics research outcomes by delivering quantitative strain results with a 15% improvement in interpretation efficiency through custom visualizations and bar graphs developed in Python and MATLAB.
- Automated processing of 5,000+ image frames to generate strain-field datasets for research using NCorr and DuoDIC.

EXPERIAN, Hyderabad, India. **April 2024-June 2024**
Software Engineer Intern **|** *Python, PySpark, AWS*

- Collaborated with the Ascend Ops team, gaining hands-on training in software development practices, Agile stand-ups, and company frameworks, accelerating onboarding and contributing to project readiness.
- Gained knowledge of silent billing configurations and the importance of processing payments using standardized time references like UTC (contributing to an accurate payment processing rate of over 95%) and learnt about Amazon Web Services (AWS), particularly CloudWatch.
- Developed working knowledge of Docker and Jenkins CI/CD pipelines through simulations, strengthening understanding of automated build, test, and deployment workflows across the SDLC.

ACADEMIC PROJECTS

EARLY ROOT STRESS AI DETECTION SYSTEM **June 2025-Present**
Team Member

- Enable early detection of root stress for farmers through integrated sensor and image analysis by developing the React frontend, connecting it with backend APIs, and modifying AWS Lambda functions to streamline data flow.

Divvy Bike Analysis Project **Jan 2025 – May 2025**
Team Member

- Improved demand forecasting accuracy for Chicago's bike-sharing system by implementing Weighted Moving Average, SARIMA, and RNN models on 300K+ trip records using Python, Pandas, and Matplotlib, supporting optimized station distribution.

PANTRY CONNECT- (Software Engineering I) **August 2024-Dec 2024**
Group Leader

- Reduced inter-pantry coordination time by 30% by leading a 4-member team, managing Jira tickets, and building the React frontend of a MERN stack application with real-time inventory tracking and geolocation-based midpoint calculation.

STUDENT HELPDESK – Capstone Project (Bachelor's Degree) **March 2024-June 2024**
Team Member

- Delivered an end-to-end cross-functional student helpdesk platform by independently developing RAG workflows, integrating LangChain with OpenAI's models, and using Supabase for data storage, enabling a virtual counselor that resolved 90% of academic and personal queries.