

Shaik Mohammad Faredeen

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SUMMARY

Innovative Computer Science and Engineering Masters candidate with hands-on experience in engineering web application modules through the MERN stack. Successfully devised RESTful APIs, enhancing data retrieval speed by 45%, and streamlined CI/CD pipelines to improve release frequency. Seeking opportunities to apply technical acumen and automation skills to drive efficient software solutions and elevate user experiences.

EXPERIENCE

Full-Stack Developer Intern (MERN)

Ethnus Codemithra

August 2023 – November 2023

- Engineered end-to-end web application modules using the MERN stack, integrating responsive user interfaces with robust backend services to streamline client project workflows.
- Devised and deployed RESTful APIs with Express.js and MongoDB, achieving a 45% improvement in data retrieval speed and supporting scalable functionality for 3 client-facing applications over a 6-month internship.
- Streamlined deployment processes by automating CI/CD pipelines with GitHub Actions, Docker, and AWS services, bolstering release frequency and ensuring more reliable updates for client deliverables.

PROJECT

AI Contract Invoice Intelligence System

- Formulated a robust AI-driven contract invoice intelligence system that automated invoice extraction, elevated data accuracy through advanced NLP techniques, and empowered finance teams with actionable real-time analytics.
- Integrated scalable machine learning pipelines using Python and TensorFlow to process over 150,000 invoices annually, decreasing manual review hours by 45% and achieving a 98% data extraction accuracy rate as measured by quarterly QA audits.
- Engineered an end-to-end validation framework leveraging Python and Apache Airflow, facilitating seamless monitoring of invoice extraction processes, reducing error rates by 60%, and supporting compliance across \$500M+ annual transaction volume.

Infant Cry Analysis

- Engineered an infant cry analysis solution leveraging machine learning algorithms to accurately classify cry types, enabling timely intervention and supporting improved caregiver response.
- Developed and deployed a scalable infant cry analysis platform using Python and TensorFlow, achieving 92% classification accuracy across 10,000+ audio samples, and reducing caregiver response latency by 35% during six-month pilot implementation.
- Integrated advanced signal processing techniques and real-time data visualization into the infant cry analysis system, enhancing actionable insights for caregivers and supporting improved intervention protocols.

Autism Detection using machine learning

- Devised an end-to-end deployment pipeline for the autism detection model, streamlining real-time predictions within clinical environments and ensuring compliance with healthcare data standards.
- Engineered a scalable machine learning solution that achieved 92% accuracy in detecting autism spectrum disorder from behavioral datasets, deploying Python and Scikit-learn across a cohort of 3,000+ subjects and reducing diagnostic processing time by 40%.
- Integrated advanced feature selection techniques to optimize model performance, bolstering diagnostic precision and driving actionable insights for healthcare practitioners.

EDUCATION

Master of Science in Computer Science

George Mason University • Fairfax, VA • 2027 • 3.0

SKILLS

Technical Skills: Python, C, C++, Java, HTML, CSS, JavaScript, Docker, HTML, JavaScript, CSS, JavaScript Technical, MongoDB, MySQL, PostgreSQL, MariaDB, DynamoDB, Redis, Database, React, Node.js, Express.js, Flask, REST APIs, Agile/Scrum, Git, Docker, Docker Compose, Postman, VS Code, Eclipse, Jupyter, Google Cloud Platform (GCP), AWS, CI/CD Pipelines, Linux/Unix, Compute Engine, Cloud Storage, TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, CNN, LSTM, Statistical, Feature Extraction, Model Optimization, Ensemble Design, SVM

Technical Skills: Data Structure, Object Oriented, Kotlin, SWE, Backend Engineer, Cloud Engineer, Technical Lead