

# Shaik Mohammad Fardeen

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## EDUCATION

### George Mason University

Aug 2025 - May 2027

*Master of Science, Computer Science*

- **Coursework:** Mathematical Foundations of Computer Science, Analysis of Algorithms, Computer Systems, Systems Programming, Component-Based Software Development, Intro to AI, Obj Orient Software Specification

## TECHNICAL SKILLS

- **Cloud Platforms:** Google Cloud Platform (GCP), AWS (basic), CI/CD Pipelines (Continuous Integration/Continuous Deployment), Linux/Unix
- **Visualization:** Matplotlib, Seaborn
- **Databases:** PostgreSQL, SQL, MongoDB, MySQL
- **Frameworks & Tools:** FastAPI, React, Node.js, Express.js, Flask, REST APIs, Agile/Scrum, Git, Docker, Postman, VS Code, Eclipse, Jupyter
- **Programming Languages:** Python, C, C++, Java, JavaScript
- **AI & Machine Learning:** PyTorch, Scikit-Learn, TensorFlow, Keras, NumPy, Pandas

## CERTIFICATIONS

- **Google Cloud Computing Foundations: Google Cloud (Dec 2023) Cloud Infrastructure, Google Cloud Platform (GCP), Big Data, Machine Learning Fundamentals**
- **Amazon Junior Software Developer Professional Certificate**
- **Machine Learning with Python: Machine Learning with Python: Foundations**
- **Python for Data Science and Machine Learning Essential Training Part**

## EXPERIENCE

### Ethnus Codemithra

Aug 2023 - Nov 2023

*Full-Stack Developer Intern (MERN)*

Bengaluru, India (Remote/Hybrid)

- Designed and deployed full-stack web applications using MongoDB, Express.js, React, Node.js (MERN); built RESTful APIs that reduced average response time by 30%.
- Collaborated in Agile/Scrum ceremonies (daily stand-ups, sprint planning, retros); improved sprint delivery speed by 20% through backlog grooming and story sizing.
- Optimized backend workflows by implementing efficient data structures and algorithms, contributing to faster API responses and improved scalability.
- Integrated third-party APIs and payment gateways; added automated tests (Jest/React Testing Library) and API monitoring with Postman Collections.
- Contributed to infrastructure setup and containerization using Docker, supporting scalable backend deployments and smooth CI/CD pipelines.

## PROJECTS

### Infant Cry Analysis Machine Learning Pipeline

- Integrated MySQL with the Flask backend to persist screening results and drive clinician dashboards using parameterized SELECT queries.
- Achieved 78.26% accuracy with Random Forest; engineered temporal features (cry duration, silence intervals, repetition rate) and fine-tuned EfficientNet to reach 82% accuracy; reported precision/recall and confusion matrix.

### Autism Detection Deep Learning + Web App

- Developed CNN/LSTM models for autism spectrum disorder screening; enhanced baseline by 15% to reach 91% accuracy with EarlyStopping and learning-rate scheduling.
- Implemented preprocessing (normalization, augmentation), stratified splits, and evaluation (ROC-AUC, F1); containerized inference service and deployed a Flask REST API with HTML UI for clinician demo.

### Hybrid Algorithm for Parkinson's Disease Prediction

- Ingested benchmark dataset into SQL tables; created reusable views for train/validation splits and feature subsets to speed up experimentation.
- Profiled class imbalance and missingness with COUNT(\*), SUM(CASE ...), and AVG() aggregates; exported query results to CSV for modeling.