Arsalan Shaik

Arsalan27shaik@gmail.com | https://www.linkedin.com/in/arsalanshaik/ | https://github.com/arsalan5shaik
Dallas, TX | (214) 430-8536

EDUCATION

The University of Texas at Dallas, Richardson, TX — Expected In Dec 2026
Bachelor of Science in Computer Science — GPA: 3.8

TECHNICAL SKILLS

Languages: C#, Java, Python, R, C++, SQL, HTML/CSS, JavaScript, Go
Databases: MS SQL Server, Oracle, MySQL, PostgresQL, MongoDB
Tools and Frameworks: Node.js, React.js, Git, GitHub, Jupyter, Django, Maven, Linux, .Net, Angular, Spring Boot, Docker
ML and AI Frameworks: TensorFlow, PyTorch, Keras, Sklearn
Libraries: OpenCV, OpenGL, NumPy, Matplotlib, Pandas, Seaborn

Relevant Coursework: Advanced Algorithm Design and Analysis, Database Systems, Software Engineering, Systems Programming in UNIX, Programming Language Paradigms, Artificial Intelligence, Machine Learning

EXPERIENCES

Staples, *Software Engineer Intern* — Jun 2026 – Aug 2026

- Collaborated with the internal tools team to build an LLM-powered workflow automation system using GPT-4o, reducing manual operational overhead by ~15 hours/week.
- Designed and optimized the model inference layer, including context window management, system prompt architecture, and parameter tuning to meet production accuracy requirements.
- Integrated the LLM backend with internal systems via REST APIs, implementing structured output parsing, fallback handling, and response validation to ensure reliability at scale.

Intuit, *Data Engineer Intern* — Feb 2025 – Aug 2025

- Contributed to a team-owned Apache Beam pipeline modeling user sessions from live event streams; personally developed a Python module to monitor Kafka consumer lag and surface scaling recommendations, reducing processing delays by ~30% during peak traffic.
- Implemented backward-compatible schema updates via Confluent Schema Registry across 10+ event types, ensuring zero-downtime changes for downstream consumers.
- Collaborated with the data engineering team to migrate 15+ on-premise processing jobs to AWS (S3, Redshift); wrote validation scripts to verify data integrity post-migration, improving average query performance by ~25%.

PROJECTS

Artificial Intelligence Society

- Developed a Traffic Signs Recognition system using Python and deep learning, achieving 95% accuracy with a Convolutional Neural Network (CNN) trained on over 50,000 preprocessed images.
- Designed and trained a deep learning model with Keras; implemented Conv2D, MaxPooling, Dropout, and Dense layers.
- Developed a Tkinter-based GUI for image upload and classification; visualized model metrics using Matplotlib and Scikit-learn.
  Skills: Python, Deep Learning, Keras, Python Imaging Library, NumPy, Matplotlib, Scikit-learn, Tkinter

Association For Computer Machinery

- Developed a full-stack Restaurant Recommendation app using the MERN stack with filters for location, cuisine, and rating.
- Designed RESTful APIs and MongoDB schemas for dynamic filtering and efficient data handling.
- Built a responsive React.js interface with Context API and custom hooks for state management and real-time updates.
  Skills: JavaScript, MongoDB, REST APIs, Performance Optimization, System Monitoring

CERTIFICATIONS

- PCEP – Certified Entry-Level Python Programmer
- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure Data Fundamentals