Ishaq Ahmed Shaik

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Summary

Master's student in Computer Science with expertise in scalable systems, C++, and backend development. Skilled in data structures, algorithms, and microservices, with experience improving performance and building real-time data solutions. Passionate about creating efficient software and tackling complex challenges.

Education

- **Arizona State University** — Tempe, Arizona
  Master of Science in Computer Science — *May 2026*
  Courses: *Statistical Machine Learning, Foundations of Algorithms, Information Assurance and Security*
- **Ramaiah Institute of Technology** — Bengaluru, India
  Bachelor of Technology - Information Science Engineering — *June 2023*
  Courses: *Operating Systems, Analysis of Algorithms, Blockchain, Artificial Intelligence, Machine Learning, Networking, Databases*

Skills

- **Languages**: Python, C, C++, Go, JavaScript, SQL, Bash, Java, Dart
- **Frameworks**: Spring Boot, Django, Flask, Node.js, Angular, Flutter, React, NestJS
- **Tools**: TensorFlow, PyTorch, scikit-learn, OpenCV, Docker, Redis, Git, PostgreSQL, MySQL, SQLite
- **Platforms**: Linux, AWS, Google Cloud, Raspberry Pi, Arduino
- **Concepts**: Machine Learning, Deep Learning, Zero-Shot Learning, Cryptography, Network Security
- **Methods**: Supervised/Unsupervised Learning, Feature Engineering, Temporal-Spatial Analysis

Experience

- **Extreme Networks**
  Associate Wireless Software Developer — *Jul 2023 - Jun 2024*
  - **Fixed critical bugs**: Resolved four high-priority issues in the Spring Boot codebase, including correcting SQL inconsistencies that improved AP log accuracy by 30% and eliminating duplicate log entries for multiple APs, resulting in a 40% reduction in log processing time.
  - **XAPIs**: Enhanced and ported XAPIs for switch management using Spring Boot, resulting in a 20% improvement in response times. Optimized data serialization with Protocol Buffers, reducing payload size 22%, and streamlined data interchange with JSON. Implemented MVC architecture, increased system scalability and maintainability by 25%
- **Nbyula**
  Software Application Engineer Apprentice — *Mar 2023 - Apr 2023*
  - **Caching and Resizing Images**: Developed a standalone system that automates image resizing and caching on CloudFront from S3, improving performance by 35% and reducing server load by more than 50% through the use of AWS Lambda Functions.
  - **Migrated Jenkins to Cloud**: Transitioned the Jenkins server from a local machine to AWS using Docker Containers.
  - **S3 to Vimeo Upload Integration**: Implemented a Lambda function to transfer images from S3 to a Vimeo folder.
  - **Logged user exits on Jitsi Meet**: Developed a feature for Jitsi Meet to detect and log when a participant abruptly leaves a call, enabling better tracking of disconnected users and improving meeting monitoring.
- **LoadShare Networks**
  SDE Intern — *Sep 2022 - Dec 2022*
  - **Slack Logs**: Integrated Slack logs into database changes by implementing endpoints in the Spring Boot API.
  - **Python Scripts**: Developed Python scripts to deploy ETL workflows in SQL
  - **DevOps**: Containerized the application with Docker and implemented CI/CD pipelines.

Projects

- **AI-Driven Network Intrusion Detection System (Class Project)**: Developed a machine learning-based system to detect and classify cyber threats in real time using datasets like NSL-KDD and CIC-IDS2017. Achieved 99% detection accuracy by implementing advanced models (e.g., Decision Trees, Random Forests, XGBoost) and optimizing data preprocessing pipelines. Addressed challenges such as false positives, class imbalance and adversarial attacks, contributing to scalable, real-time network security solutions.
- **AI-Generated Video Detection Framework (Class Project)**: Developed a framework to identify AI-generated videos using keyframe selection and zero-shot learning. Achieved 84.5% shot boundary detection accuracy, 82.8% keyframe selection precision, and 77.3% zero-shot detection accuracy. The system uses transfer learning techniques to adapt to unseen AI generators with minimal retraining, enhancing efficiency and scalability.
- **Recover CryptoCurrency Ledger Seed (Personal Project)**: A program to find human errors in the 24 word seed. Implemented Levenshtein distance algorithm to find the closest word and verify the validity of a cryptocurrency ledger seed.
- **Student Database for a University (Personal Project)**: Developed for managing student information in a college, including personal details, classes, exam dates, and subjects, using Flutter, Spring Boot, and MySQL.
- **Deskreen (Github Contribution)**: Deskreen turns any device with a web browser into a secondary screen for your computer. Packaged and published an open-source project on Arch Linux as part of a contribution to the community.