ISHAQ SHAIK

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EDUCATION

Arizona State University — Tempe, AZ
Masters of Science in Computer Science — *August 2024 – May 2026*

Ramaiah Institute of Technology — Bangalore, IN
Bachelors in Information Science Engineering — *August 2019 – May 2023*

EXPERIENCE

Associate Wireless Software Developer — July 2023 – June 2024
Extreme Networks — *Bangalore, IN*
- Resolved critical transactional issues by fixing **SQL inconsistencies**, boosting AP **log accuracy by 30%** and decreasing log **processing time by 40%**
- Enhanced XAPIs for switch management using Spring Boot, enhancing **response times by 20%**. Optimized with **Protocol Buffers** and JSON, **decreasing payload size by 22%**. Applied **MVC** architecture for **25% better scalability**

Software Application Engineer Apprentice — March 2023 – April 2023
Nbyula — *Bangalore, IN*
- Built a microservice for **image resizing and caching via CloudFront + S3**, boosting **performance by 35%** and cutting server **load by 50%** using **AWS Lambda**
- **Redesigned** Chatbox UI and resolved duplicate messages, resulting in a **32% increase in user engagement**
- **Migrated Jenkins server** from a local machine to AWS by containerizing with **Docker and integrating CI/CD** using AWS CodePipeline and CodeBuild
- Created a feature for Jitsi Meet to **detect and log** when a participant **abruptly leaves a call**, enabling better tracking of disconnected users and **optimizing meeting monitoring**

Software Developer Intern — September 2022 – December 2022
LoadShare Networks — *Bangalore, IN*
- **Integrated Slack logs** into database changes by implementing endpoints in the **Spring Boot API** for better tracking of manual SQL changes
- Developed **Python scripts** to deploy **ETL workflows** in **SQL**, reducing manual effort and speeding up ingestion
- Containerized with **Docker** and set up **CI/CD**, enabling faster and more reliable deployments

Student Intern Software Developer — February 2022 – August 2022
Chiplogic Technologies — *Bangalore, IN*
- Built **network management** and **time synchronisation** for **5G O-RAN** in **C++**, improving system reliability
- Converted **Python** 5G modules to low-level **C++** for chip integration, reducing latency and improving performance

PROJECTS

AI-Driven Network Intrusion Detection System | *Scikit-learn, XGBoost, Jupyter* — Aug. 2024 – Nov. 2024
- Built a real-time **cyber threat detection system** using **NSL-KDD** and **CIC-IDS2017** datasets
- Achieved **99% accuracy** with models like **Decision Trees**, **Random Forests**, and **XGBoost**
- Optimized **data preprocessing** to address **class imbalance** and reduce **false positives**
- Enhanced system robustness against **adversarial attacks** for scalable **network security**

AI-Generated Video Detection Framework | *PyTorch, OpenCV, Transformers, Pandas* — Aug. 2024 – Nov. 2024
- Developed a **framework** to detect **AI-generated videos** using **keyframe selection** and **zero-shot learning**
- Achieved **84.5%** shot boundary detection accuracy and **82.8% precision** in keyframe selection
- Reached **77.3% accuracy** in zero-shot detection of **AI-generated content**
- Leveraged **transfer learning** to adapt to unseen **AI generators** with minimal retraining, boosting **scalability**

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, Ruby, Go, Kotlin, SQL, Bash, Dart
Frameworks: Spring Boot, Django, Flask, Node.js, Angular, Flutter, React, NestJS
Developer Tools: Docker, Amazon Web Services ,Google Cloud, Azure, Git, Kafka
Databases: MySQL, NoSQL, MongoDB, Redis, PostgreSQL, Redis
Libraries: PyTorch, TensorFlow, Pandas, scikit-learn, NumPy, Matplotlib