ISHAQ SHAIK

U.S. Work Authorized | 623-273-5788 | ishaq.sde@gmail.com | linkedin.com/in/ishaq-sde | github.com/sonuishaq67

EDUCATION

Arizona State University   Tempe, AZ
Master of Science in Computer Science • GPA: 3.72/4.00   *Aug 2024 - May 2026*
- *Relevant Coursework:* Data Processing at Scale, Cloud Computing, Statistical Machine Learning, Advanced Data Structures

Ramaiah Institute of Technology   Bangalore, India
Bachelor of Engineering in Information Science   *Aug 2019 - May 2023*
- *Relevant Coursework:* Neural Networks, Computer Networks, Database Management Systems, Distributed Storage

EXPERIENCE

ASU – Thunderbird School of Global Management   May 2025 – Present
Graduate Student Assistant (Software Engineer)   *Phoenix, Arizona*
- Enabled **5K+ Spanish users** to query DreamBuilder by building **RAG-powered WhatsApp bot** using **Meta API**.
- Ensured reliable message delivery by implementing **webhooks** and **session logic** with secure state management.
- Increased reporting frequency from monthly to daily for **250K+ users** by deploying **AWS Lambda+RDS** ingestion service.

Extreme Networks   Jul 2023 – Aug 2024
Software Engineer, Wireless Systems   *Bangalore, India*
- Released **2 flagship AP models** on time, adopted across **20 NFL/MLB sites**, by developing **8 APIs** with **70+ edge cases**.
- Reduced missing updates when APs were offline for **100K+ devices** by engineering fault-tolerant **Kafka** pipeline.
- Cut latency in AP request handling by **25%** by implementing **gRPC** layer to boost API throughput across services.

Nbyula   Mar 2023 – May 2023
Software Engineer Intern   *Bangalore, India*
- Improved engagement and retention by cutting image load time **84% (2.5s→400ms)** using **AWS S3 + CloudFront**.
- Boosted **Daily Active Users from 3.2K→4.2K (+32%)** by redesigning **React** chat UI and fixing **Redis** duplication bug.
- Enabled faster releases and reliable deploys by dockerizing microservices and automating **CI/CD** with **AWS**.

LoadShare Networks   Sep 2022 – Dec 2022
Software Developer Intern   *Bangalore, India*
- Saved ops team **10–15 min daily** by automating **2–3 SQL updates** via **Spring Boot + Slack bot** for real-time changes.
- Cut rollout time **75% (40→10 min)** and improved safety by dockerizing **Spring Boot** service with automated **CI/CD**.

Chiplogic Technologies   Jan 2022 – Aug 2022
Software Developer Intern   *Bangalore, India*
- Cut firmware memory use **72%** on **5G O-RAN** targets by optimizing embedded **C++** and data structures.
- Raised cross-interface throughput **15%** by implementing **C++ APIs** for **O-RAN** components.

PROJECTS

Distributed Social Media Backend API | *Go, MySQL, Redis, Docker, Kubernetes* | ⍟ sonuishaq67/social-api
- Scaled backend to **10K+ simulated users** by building **RESTful API** and cutting latency **65%** with **Redis caching**.
- Sustained **50K+ req/min** under stress tests by deploying **Redis→MySQL aggregation** on **Kubernetes HPA**.

AI-Generated Video Detection Framework | *PyTorch, Transformers, OpenCV* | ⍟ sonuishaq67/ai-video-detector
- Reached **85% accuracy** on **FaceForensics++** by developing **CNN+Transformer** pipeline beating baseline models.
- Outperformed **OpenAI CLIP** by **12%** with spatial-temporal modeling, enabling faster training and deployment.

ML-Driven Network Intrusion Detection System | *Scikit-learn, XGBoost, Jupyter*
- Built real-time intrusion detection on **NSL-KDD & CIC-IDS2017** datasets, classifying malicious traffic flows.
- Achieved **99% accuracy** on **NSL-KDD & CIC-IDS2017** by tuning **Decision Trees**, **Random Forests**, and **XGBoost**.

HONORS & AWARDS

3rd Prize – **Capture The Flag Event** at Google Developers Club RIT (Dec 2021)

2nd Prize – **Catch the Anomaly** debugging competition, IEEE RIT (Mar 2021)

TECHNICAL SKILLS

Languages Java, Python, C++, Go, Rust, SQL, JavaScript, TypeScript
Frameworks Spring Boot, Django, React, Node.js, PyTorch, Flink, GraphQL
Databases PostgreSQL, MongoDB, Redis, DynamoDB
Tools/Platforms AWS (EC2, S3, Lambda, RDS, SQS, CloudWatch), Kafka, Docker, Kubernetes, Git, Linux
Concepts Distributed Systems, System Design, Data Structures & Algorithms, Object-Oriented Design, Agile