

Sohail Uddin Syed

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EDUCATION

Master of Science, Computer Science

Aug 2023 – May 2025

Florida State University

Tallahassee, FL

Coursework: Advanced Database Systems, Advanced Operating Systems, Advanced Data Science, Software Engineering, Offensive Computer Security

Bachelor of Engineering, Computer Science

Aug 2019 – July 2023

Osmania University

Hyderabad, India

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, C/C++, C#, SQL, HTML, CSS

AI & GenAI: AI Tools for Development Productivity, Multi-Agent Systems, LLM Pipelines, Kiro, GenAI, MCP, RAG

Cloud & DevOps: AWS (CDK, Lambda, API Gateway, DynamoDB, S3, CloudWatch, IAM), Azure (Application Insights, Function Apps, Cosmos DB), Docker, Kubernetes, CI/CD (CircleCI, Azure DevOps)

Backend & Systems: Node.js, Express, REST APIs, Microservices, Cloud-native Architecture, Distributed Systems, OAuth 2.0, JWT, OOP, Agile/Scrum

Databases: SQL (SQL Server, PostgreSQL, MySQL) · NoSQL (MongoDB, DynamoDB, Redis, Apache Cassandra)

Tools: Git, Unix/Linux, SonarQube, Sentry.io

WORK EXPERIENCE

Software Development Engineer

July 2025 – Present

One Community Global · Node.js · React · MongoDB · Azure · REST APIs · Open Source

Remote, Seattle WA

- Designed and delivered a scalable badge and recognition system in Node.js and React serving 2,500+ concurrent users, owning the full software development lifecycle from design through deployment with zero post-release defects.
- Shipped a fault-tolerant REST API microservice with OAuth 2.0 authentication and unit-tested endpoints, processing 1,000+ events per month at 99.9% delivery rate and eliminating 10+ hours of weekly manual engineering work.
- Debugged and resolved a race condition across 2,500+ concurrent sessions in a distributed MongoDB environment, applying root cause analysis and optimistic locking with idempotency checks to achieve 100% write-conflict elimination.
- Deployed Azure Application Insights with custom metrics, alert thresholds, and dashboards, demonstrating operational excellence by surfacing root cause within minutes of every production incident and cutting MTTR by 50%.
- Conducted Git-based code reviews, contributed to technical documentation, and mentored 8 engineers across multiple production releases in an Agile CI/CD environment.

AI Security Research Intern

Sep 2024 – April 2025

Responsible AI Lab (RAI), Florida State University · Python · PyTorch · Distributed ML

Tallahassee, FL

- Developed a Python framework to systematically benchmark distributed ML model behavior, running 70+ controlled experiments across query budgets and subgraph sizes to measure performance limits and validate system reliability.
- Achieved 85.9% surrogate fidelity overall and 93.6% best-case, identifying that 72 queries reconstruct 72.2% of deployed model behavior and proposing mitigations including rate limiting and differential privacy to harden production AI systems.

PROJECTS

Forge | Python · Kiro · GenAI · Multi-Agent Systems · LLM Pipelines · MCP · SonarQube

- Built a 4-agent LLM pipeline on Kiro CLI to improve developer productivity, automating planning, design, implementation, and review stages of the SDLC with AI-powered tooling, leveraging GenAI to enhance development productivity.
- Wired SonarQube as an MCP server for automated quality gates, built a spawn hook that injects a mistakes.md failure log into every agent session at startup, and maintained shared steering files auto-loaded as system context, cutting code review failures by 50%.

CloudCut | AWS · TypeScript · CDK · Lambda · API Gateway · DynamoDB · CloudWatch · CircleCI

- Architected a URL shortener and analytics platform as a cloud-native distributed microservice system on AWS, implementing fault-tolerant service design, event-driven processing via DynamoDB Streams, and infrastructure-as-code via AWS CDK targeting 100M DAU.
- Validated sub-200ms end-to-end latency by instrumenting distributed services with CloudWatch monitoring, with automated CI/CD deployment via CircleCI ensuring scalable and resilient production delivery.

MyTorrent | Java · OOP · Data Structures · Algorithms · Multi-threading · Socket Programming · Fault Recovery

- Engineered a fault-tolerant peer-to-peer file sharing system in Java supporting 1GB transfers across 10+ concurrent peers, applying object-oriented design, data structures, and algorithms to implement multi-threaded peer discovery, connection handling, and retry-based fault recovery.