

Mohammad Aatif Shaikh

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Education

University of South Florida

Aug 2022 - Dec 2026

Bachelor of Science, Computer Science (GPA: 3.6)

- **Achievements:** USF Green & Gold Scholarship Recipient
- **Coursework:** Intro to AI, Network Analysis & ML, Software Engineering, Software System Development, Analysis of Algorithms, Data Structures

Summary

CS senior (graduating May 2026) with hands-on AWS, Linux, Docker, and CI/CD experience. Contributed to Mozilla open source; accepted into Meta MLH Site Reliability Fellowship (couldn't attend due to surgery). Recently focused on AIOps/MLOps: evaluation harnesses, observability, and agentic LLM workflows. Seeking an early-career role where I can ship reliably, improve developer workflows, and keep learning.

Technical Skills

- **Developer Tools:** VS Code, PyCharm, Linux, Powershell
- **Infrastructure & Automation:** Jenkins, Docker, Kubernetes, Ansible, AWS (EC2, RDS, Lambda, S3, CloudWatch), Terraform, Bitbucket, GitHub Actions
- **Backend & API Development:** API design, PostgreSQL, Data pipeline development, Distributed systems basics
- **Languages:** Python, Go, C++, C#, Bash, HTML, CSS, JavaScript
- **AI/LLM Integration:** Experience with GPT-4, RAG-based workflows, natural language tooling for CI/CD observability, PyTorch

Experience

CacheAi | *AI/ML Intern*

Aug 2025 - Present

- Supported beta launch by owning a slice of the AI pipeline and internal demos.
- Built evaluation harnesses for agentic LLM workflows, integrating data pipelines and implementing prompt tests and guardrails.
- Wired CI/CD with containers and added latency & cost metrics for LLM calls to inform tuning.
- Designed and improved internal APIs supporting scalable backend services in Python.

USF IT | *Audio Visual Tech*

May 2025 - Present

- Diagnosed and resolved issues on 100+ lab PCs / semester; helped maintain ~99% uptime.
- Performed health checks on AV infrastructure (projectors, mics, conferencing), preventing downtime for 200+ weekly classes.

Mozilla (via Bugzilla) | *Open Source Contributor*

- Contributed to Firefox DevTools and platform infrastructure: triage, docs, and CI/CD-related issues.
- Improved DevOps documentation (build, dependencies, testing workflows) and validated fixes pre-merge.

Infrastructure Docs Collective (GitHub) | *Open Source Contributor*

- Authored documentation for Terraform modules, GitHub Actions, Ansible, and DevOps templates.
- Merged 20+ PRs improving DX and time-to-first-deploy for new users; wrote onboarding guides, infrastructure readmes, and security walkthroughs for AWS IAM, VPC setup, and EKS deployments

Technical Experience

Smart Kubernetes Autoscaler with AI Forecasting | [LINK](#)

- Forecasts resource usage and drives dynamic pod scaling via HPA; visualized in Grafana.
- In simulation, reduced cloud overprovisioning by ~30%.

CI/CD Reliability Monitor | [LINK](#)

- Real-time pipeline monitor collecting logs, running anomaly detection, and alerting in Slack.
- Applied agentic AI to produce root-cause insights and reduce triage time.

Cloud-native E-Commerce Refactor | [LINK](#)

- Re-architected monolith to serverless using Terraform + CodePipeline, IAM best practices, ElastiCache.
- Cut deployment time by ~75% and simplified releases.

Leadership

USF Student Government | *Sentor*

May 2024 - May 2025

- Helped oversee \$2M+ in student-activity funds (ASRC), ensuring compliance with Title-8 Finance Code.
- Drove updates to 10+ statutes, improving operational efficiency by ~20% and transparency.
- Served on 3+ committees concurrently; balanced priorities in fast-moving environments.