

GAURVI ARORA

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SUMMARY

MS Computer Science candidate (May 2027, Northeastern University) with hands-on experience in cloud infrastructure, DevOps automation, and site reliability engineering. Built and shipped production systems across AWS, Kubernetes, Terraform, and CI/CD pipelines. Seeking full-time SRE, Cloud Engineering, DevOps, or Solutions Architect roles starting Summer 2027.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EC2, IAM, VPC, RDS, EKS), Kubernetes, Docker, Terraform, Ansible, OpenStack, Linux/Unix

Observability & SRE: Prometheus, Grafana, KEDA, CI/CD, GitHub Actions, log intelligence, AIOps pipelines, MTTR reduction

Languages & Tools: Python, SQL, REST APIs, Firebase, Android Studio (Kotlin), Swift, Git, Jira

AI/ML Integration: LLM integration, Agentic AI, prompt engineering, event tracking, instrumentation schema design

Certifications: [AWS Cloud Architect](#) · [AWS Cloud Foundations](#) · [AWS Technology Architect](#)

WORK EXPERIENCE

Software & Cloud Engineering Intern | *Cloud Analytics* | Gurugram, India Sep 2024 – Nov 2024

- Diagnosed recurring infrastructure provisioning failures via stakeholder interviews and usage data analysis; re-architected a multi-region AWS setup (EC2, IAM, VPC, RDS) that cut provisioning time from 5 hrs to under 45 minutes.
- Identified idle EC2/RDS resource bloat as root cause of cost overruns through end-to-end pipeline analysis; delivered prioritized remediation brief adopted by engineering and finance, driving a 20% monthly cost reduction.
- Defined event tracking schemas and CI/CD health KPIs; redesigned release workflows with parallel jobs and automated test gates, cutting release cycle time by 67% and improving deployment reliability.
- Scoped, built, and shipped an LLM-powered AIOps diagnostic tool for IAM/VPC root-cause detection; aligned cross-functional stakeholders on requirements and tracked launch outcomes against success metrics, reducing MTTR by 40%.
- Replaced five disconnected reporting tools with a unified operational dashboard consolidating cost, latency, and usage KPIs, accelerating engineering decision cycles to a single performance signal.

PROJECTS

PeakPilot — AI Predictive Autoscaling Platform · *Python · Flask · Docker · Kubernetes · KEDA · GitHub Actions · Prometheus · Grafana*

- Designed a predictive autoscaling system using Prophet time-series forecasting integrated with KEDA custom metrics to generate pod-count recommendations 10 minutes ahead of demand spikes, reducing scaling lag by 80% versus reactive HPA baselines.
- Engineered a full CI/CD pipeline (GitHub Actions to Docker to Minikube) and resolved HPA/KEDA conflicts, Docker memory allocation limits, and port collisions to achieve a stable multi-component production build.
- Instrumented a four-panel Grafana observability dashboard tracking pod count, CPU, memory, and readiness; executed A/B-equivalent load tests at 500 concurrent VUs with k6, translating results into performance SLA recommendations validated against Prometheus metrics.

MiraWear — Cross-Platform Wearable Notification Bridge · *Kotlin · Swift · Firebase Realtime DB · WCSSession · Xcode*

- Architected and shipped a distributed notification relay bridging Android and Apple Watch across OS boundaries, Android NotificationListenerService to Firebase REST to headless iPhone relay to WCSSession/WatchConnectivity, achieving sub-2-second end-to-end latency in Phase 1.
- Designed a six-phase product roadmap (REST polling to Firebase SDK/WebSocket to QR pairing to E2E encryption to HealthKit to background persistence) with measurable success metrics per phase including delivery reliability, latency SLAs, and pairing success rate.
- Conducted competitive analysis across Bridge (Orienlabs), AirBuddy, and cross-platform wearable tools; documented architecture failure modes and non-goals to de-risk design decisions before Phase 2 build.

EDUCATION

M.S. Computer Science | *Northeastern University* | Seattle, WA

Expected May 2027

B.Tech Computer Science | *Rajiv Gandhi Technical University* | India

Jun 2025