

Saksham Nayyar

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SUMMARY

Software Engineer with strong expertise in scalable backend systems, infrastructure automation, and developer tooling. Experienced in designing and integrating RESTful and gRPC APIs, automating deployments via CI/CD, and building monitoring and observability pipelines using tools like Datadog and Grafana. Adept at collaborating with cross-functional teams to improve system stability, scale, and developer experience.

SKILLS

- **Languages:** Python, Java, Kotlin, JavaScript, Node.js, C/C++
- **Backend:** Spring Boot, REST, gRPC, WebSockets, Redis, MongoDB, Infrastructure as Code (IaC)
- **CI/CD & DevOps:** Jenkins, GitHub Actions, Docker, Kubernetes, Datadog, Grafana, Kibana, Splunk
- **Tools & Testing:** Postman, Figma, Spark, Android Studio, Git, Gerrit, Perforce (P4V), JUnit, Espresso, Mockito, Postman.
- **Other:** System Design(HLD, LLD), Clean Architecture, Modular design, Agile Scrum, UI/UX, Secure Coding

EXPERIENCE

Software Engineer | Samsung R&D Institute, India

Sep 2020 - Aug 2023

- Engineered core features for Samsung DeX, enabling desktop-mode functionality on Samsung mobile devices and improving UX across millions of users.
- Designed and automated CI/CD pipelines (Jenkins, GitHub Actions) for seamless deployments, reducing manual errors and increasing delivery speed.
- Re-architected application into modular Kotlin codebase using MVVM and Clean Architecture, improving scalability and maintainability for 1M+ DAU, reducing memory usage by 30 MB.
- Developed backend services using REST, gRPC, and WebSockets and optimized performance through caching (Redis) and containerization (Docker, Kubernetes).
- Integrated observability and monitoring pipelines with tools such as Datadog and Grafana to enable proactive issue detection and system health tracking.
- Automated infrastructure provisioning and configuration using Infrastructure as Code (IaC) practices to improve scalability and consistency.
- Resolved high-priority production issues by working closely with QA and cross-functional teams, maintaining app stability and meeting performance SLAs.
- Achieved 90% unit test coverage using JUnit; contributed to test planning and validation workflows.
- Actively participated in code reviews, pair programming, and architecture discussions, fostering a culture of collaboration.
- **Tech Stack:** Python, Java, Kotlin, Node.js, Spring Boot, Docker, Kubernetes, Redis, Datadog, Grafana, Kibana, Jenkins, GitHub Actions, gRPC, CI/CD, Agile/Scrum.

Software Engineer Intern | Samsung R&D Institute, India

Jan 2020 - May 2020

- Designed and developed DeX Lite Launcher from scratch using Java and XML in Android Studio; implemented core Android components and UI flows to deliver a functional, lightweight launcher experience.

PROJECTS

Xcode Build Automation Tool | Python, Bash, Xcode, macOS

Spring 2024

- Developed a lightweight tool that automated Xcode build processes, reducing manual steps by 50%.
- Wrote Bash and Python scripts to automate compiling, testing, and packaging iOS/macOS apps using Xcode Command Line Tools.
- Integrated Unix-based monitoring to track build performance, identify failures, and send alerts for rapid issue resolution.

Connect4 web Application | JavaScript, Node.js, MongoDB, Redis

Spring 2024

- Built a real-time multiplayer **Connect4** game using Node.js and WebSockets to manage live game sessions.
- Designed RESTful API endpoints for game logic and user management; implemented responsive frontend using vanilla JavaScript.
- Deployed application using Docker for local development; emphasized clean architecture and scalability

EDUCATION

Master of Science, Computer Science | George Mason University, Fairfax, VA (GPA: 3.87/4)

May 2025

Bachelors, Electronics and Computer | Thapar Institute of Engineering and Technology, Patiala, India (GPA 7.35/10)

July 2020