Vanshaj Saxena

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EDUCATION

Galgotias University — Aug. 2021 – Aug. 2025
Bachelor of Technology and Computer Science Engineering (8.44/10) — *Greater Noida, UP*

EXPERIENCE

Software Development Intern — June 2024 – July 2024
Infosys Limited — *Mysuru, KA*

- Designed and developed a Software as a Service (SaaS) library management system, while leading a cross-functional team of 10 using Agile methodologies.
- Developed robust Firebase/Firestore integrations for real-time data sync and offline access, resulting in a 20-40% improvement in app responsiveness.
- Integrated and automated build and test pipelines using GitHub Actions and Jira, reducing manual release tasks by 80%, accelerating build time for new features.

Open Source Contributions

Lua Plugin Development — *GitHub, World*

- Contributed to open-source Lua projects, collaborating with the developer community to drive improvements and expand functionality.
- Enhanced developer tools and workflows, streamlining development processes and improving productivity by automating manual tasks by 30%.
- Improved code maintainability and scalability by refactoring over 1000 lines of legacy components and applying software engineering best practices.

PROJECTS

Auction Hub | *Java, Spring Boot, Spring Security, OpenAPI, REST API* — Dec. 2024 – Present

- Conceptualized & implemented a Spring Boot 3 microservice for online auctions, exposing RESTful endpoints for user management, product listing, bidding, and auction scheduling.
- Automated API model/controller generation via OpenAPI Generator plugin and documented endpoints with Springdoc OpenAPI (Swagger), achieving 100% endpoint coverage in interactive API docs.
- Secured the platform with Spring Security and JWT, enforcing role-based access control and stateless authentication.
- Streamlined development with Lombok and MapStruct for boilerplate reduction, improving code maintainability and reducing manual mapping errors by 75%.

Fable | *Swift, SwiftUI, Firebase/Firestore, Git* — June 2024 – July 2024

- Employed Swift and SwiftUI with an MVVM architecture to build a multi-tenant SaaS application.
- Integrated Firebase Authentication and Cloud Firestore, enabling secure user management and real-time data syncing for over 1,000 test users with near-zero latency.
- Implemented local caching, conflict resolution, and asynchronous networking to ensure seamless offline access, improving app responsiveness by 40%.
- Configured GitHub Actions for continuous integration, and UI testing, reducing post-release defects.

TECHNICAL SKILLS

Languages: Java, Python, Swift, Lua
Frameworks & Tools: Spring Boot, Spring Security, OpenAPI (Swagger), Spring Web
Developer Environment: GNU/Linux, Git, GitHub, Eclipse, Neovim
Concepts: OOPs, DSA, Dependency Injection, JWT Auth, REST APIs