

## EXPERIENCE

- **Limeroad** Gurugram  
*Software Development Intern* February 2025 - August 2025
  - Led full software development lifecycle for Vmart storefront integration, working from requirements analysis with business analysts through design, coding, testing, and deployment; embedded secure WebView and refactored sidebar routing (Kotlin—MVVM), clearing every critical defect using JIRA bug tracking tools.
  - Engineered a modern "AddAddress" screen implementing automated testing workflows and Docker containerization for deployment, with granular runtime location-permission handling (Android13 APIs) and Google FusedLocation Provider; implemented virtualization techniques for testing environments and cut checkout address-entry time through performance optimization and scalability best practices.
  - Developed enterprise-grade Java backend services for payment processing workflows, implementing object-oriented design patterns with comprehensive testing frameworks (JUnit, Mockito) and CI/CD pipelines using GitLab, optimizing database queries for high-performance transaction handling serving 50k+ users.
- **College Setu** Delhi  
*Software Development Intern* May 2024 - July 2024
  - Architected enterprise Data Collection Portal implementing full software dev lifecycle using SQL and Flask; maintained technical documentation in wiki systems and cross-functional teams using Agile methodologies.
  - Implemented comprehensive testing strategies and debugging workflows, **optimizing memory management** and troubleshooting performance bottlenecks while collaborating in agile development environment.

## PROJECTS

- **FurniAR** AR, Android Development, Firebase  
*Repository* 08/2024 - 08/2024
  - **Modular Architecture:** Implemented clean Android architecture using **Kotlin with MVVM pattern and Hilt DI framework**, creating **open-source-ready component libraries** and technical documentation that improved developer onboarding and **achieved 30% performance improvement** through memory management optimization.
  - **Enterprise Architecture:** Implemented **multi-module architecture** with dependency injection across feature modules, managing component lifecycles while reducing backend response times by 20% through optimized state management and unidirectional data flow patterns.
- **Optimized Neural Network-Based Routing Protocol for VANETs** VANET, Machine Learning  
*Repository* 08/2024 - 11/2024
  - **Optimization:** Developed a hybrid routing protocol for VANETs integrating Neural Networks and Reinforcement Learning, achieving a 20% reduction in latency and a 15% improvement in routing efficiency.
  - **Adaptability:** Designed and implemented a neural network-driven decision-making system to optimize routing in dynamic vehicular networks, demonstrating scalability and adaptability through real-time simulations.

## SKILLS

- **Languages:** Java, Kotlin, Python, JavaScript, TypeScript, SQL, React, React Native, Node.js, HTML, CSS
- **Frameworks and Architecture :** Docker, GitLab CI/CD, Spring Boot, Material Design, Android SDK, MVVM, Clean Architecture, Microservices, RESTful APIs
- **Development Tools:** IntelliJ IDEA, Android Studio, Git, GitHub, AWS, Performance Profiling, Automation Tools, Virtualization

## EDUCATION

- **Netaji Subhas University of Technology** Delhi  
*Bachelor of Technology in Mathematics and Computing* 2025
  - Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Machine Learning, Software Engineering, Soft Computing, Computer Networks, Operating Systems, Scientific Computing, Theory of Automata, Optimization, Mathematical Statistics, Database Management System, Computer Architecture, Big Data Analytics

## ACHIEVEMENTS

- Authored a **23-page research paper** on improving Grover's algorithm for quantum search optimization, leveraging IBM's Quantum Experience toolset for simulation and testing. Delivered 3+ on-campus presentations to faculty.
- Co-authored a **13-page journal article** on a hybrid VANET routing protocol using ANN and Reinforcement Learning, achieving improved PDR, latency, and throughput through multimetric optimization and simulations.