

EXPERIENCE

- **Limeroad** Gurugram
Software Development Intern February 2025 - August 2025
 - **Integrated Vmart storefront** into the app's navigation drawer by embedding a secure WebView and refactoring sidebar routing (**Kotlin—MVVM**); identified and cleared every critical defect in the release backlog.
 - Eliminating crashes in QA and enabling a friction-free purchase flow for more than 50k monthly active users.
 - Engineered a modern "AddAddress" screen from scratch with Material3, implementing granular runtime **location-permission handling** (Android13 APIs) and Google FusedLocation Provider; cut checkout address-entry time and user drop-offs, while boosting Lighthouse accessibility and performance scores.
 - Developed an advanced fuzzy search system implementing **Levenshtein distance, Jaro-Winkler similarity, and Soundex phonetic** matching algorithms (TypeScript); achieved **95%** search accuracy with 50ms response time, significantly reducing payment friction and user drop-offs during checkout.
 - Architected a comprehensive coupon management system using React Native with TypeScript, **implementing ticket-style UI components** with perforated edge design and real-time toast notifications; reduced coupon application time by **80%** (from 45s to less than 10s) and improved conversion rates for promotional offers.
- **College Setu** Delhi
Software Development Intern May 2024 - July 2024
 - Revamped the company's website using ReactJS and Tailwind CSS and developed a Data Collection Portal with Flask, enhancing functionality and user experience.
 - Demonstrated strong teamwork, adaptability, and a commitment to delivering high-quality outcomes in a fast-paced development environment.

PROJECTS

- **FurniAR** AR, Android Development, Firebase
Repository 08/2024 - 08/2024
 - **Responsiveness:** Developed an AR-based furniture visualization app using **Kotlin, Sceneform (ARCore), MVVM**, and Hilt, enhanced user experience by optimizing screen transition speed by 30%
 - **Efficiency:** Optimized Firebase rules, reducing backend response times by 20%, and integrated **Firebase Auth, Firestore, Storage, Glide, and View Binding for efficient, scalable data handling**
- **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 and Development tools:** Java, Kotlin, React, React Native, Node.js, TypeScript, SQL, JavaScript, HTML, CSS
- **Frameworks :** Material Design, Android SDK, OkHttp, Gson Arch-components, Tailwind CSS, React Hooks
- **Developer Tools:** Git, GitHub, Docker, PyCharm, Jupyter Notebook, IntelliJ, Android Studio, Cursor, AI prompts

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.