Hridyesh Kumar

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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.
  - Developed backend services and RESTful APIs using Java for payment processing workflows, implementing object-oriented design patterns and optimizing database queries for high-performance transaction handling serving 50k+ 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.
  - Architected **RESTful web services** for advanced search functionality integrating backend APIs with Java-based microservices, **achieving 95% search accuracy** with ¡ 50ms response times and implementing multithreaded processing to reduce payment friction during checkout workflows.
- **College Setu** — Delhi
  Software Development Intern — *May 2024 - July 2024*
  - Developed Data Collection Portal with database design using SQL and Flask framework, implementing RESTful web services and optimizing database schema for efficient data retrieval and storage operations.
  - Demonstrated strong teamwork, adaptability, and a commitment to delivering high-quality outcomes in a fast-paced development environment.

Projects

- **Distributed Email Analytics Platform** — React, TypeScript, Gmail API, OAuth2
  Repository — *07/2025 - 07/2025*
  - **Scalable Systems**: Built **distributed email processing** integrating Gmail API with OAuth2 authentication, creating **fault-tolerant architecture** that processes 100+ emails at scale with efficient API rate limiting for **reliable performance**
  - **Customer Impact**: Designed **customer-focused subscription management platform** solving broadly defined email organization problems, **enhancing user productivity by 80%** that directly improves customer workflow experience.
- **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 Dev tools**: Java, Kotlin, React, React Native, Node.js, TypeScript, SQL, JavaScript, HTML, CSS
- **Cloud & Distributed Systems**: AWS, Distributed Storage, Scalable Architecture, Fault-Tolerant Systems, Low-Cost Operations, Microservices, Large Distributed Computing, Prediction Systems
- **Technologies & Practices**: RESTful APIs, Database Systems, Performance Engineering, Agile Environment, Cross-disciplinary Collaboration, Managing Ambiguity, Innovation Development

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.