Hridyesh Kumar

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EXPERIENCE

- **Limeroad**   Gurugram, Haryana
  Software Development Intern   *February 2025 - August 2025*
  - **Mobile Integration**: Integrated Vmart storefront into the app's navigation by **embedding a WebView** and refactoring sidebar routing using **Kotlin with MVVM architecture**; identified and resolved critical bugs in the release backlog.
  - **Payment Backend Development**: Built backend services and **REST APIs in Java** for payment processing workflows, implementing object-oriented design patterns and optimizing database queries to handle transactions for 50k+ users.
  - **Address Entry Feature**: Developed a complete "AddAddress" screen from scratch **using Material3** design system, **implementing location permission** handling with Android 13 APIs and Google FusedLocation Provider, reducing checkout abandonment.
  - **Search Implementation**: Implemented **fuzzy search** functionality using algorithms like **Levenshtein distance** and **Jaro-Winkler similarity in TypeScript**, achieving improved search accuracy and faster response times to reduce payment friction.
- **College Setu**   New Delhi, 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

- **Mailify - Email Automation Platform**   JavaScript, AWS Lambda, DynamoDB, Gmail API, OAuth2
  Repository   *09/2025 - 10/2025*
  - **Email Automation System**: Built a bulk email management platform integrating **Gmail API** with **OAuth2 authentication** and JWT token management, implementing rich text editing with real-time HTML/CSS formatting capabilities and individual email delivery to **100+ recipients** with progress tracking and success/failure reporting.
  - **Serverless Architecture**: Designed and deployed **AWS Lambda functions** with **DynamoDB** for scheduled email delivery, implementing token refresh logic for long-lived sessions, RESTful API endpoints for email scheduling, and **TTL-based automatic cleanup**, reducing operational overhead while handling asynchronous email processing at scale.
- **FurniAR - AR Furniture Shopping App**   Kotlin, Android SDK, ARCore, Firebase, Dagger Hilt, MVVM
  Repository   *12/2024 - 01/2025*
  - **Mobile Architecture**: Developed Android furniture shopping app integrating **ARCore** for 3D product visualization, **Firebase** (Firestore, Auth, Storage) for backend services, and **MVVM architecture** with Dagger Hilt DI, implementing **real-time cart synchronization**, order management, and search functionality to enhance user shopping experience
  - **Performance Optimization**: Built secure authentication system **integrating OAuth2**, JWT tokens, and role based authorization for subscription management platform, implementing secure authentication and user management.

SKILLS

- **Languages and Dev 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, AWS, 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.