Lokesh Ram Chand B

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Education

- **KL University, Aziz Nagar** — Hyderabad, India
  Bachelor of Computer Science and Engineering (Hons.); CGPA: 9.5/10 — *Jun 2023 – May 2027 (expected)*

Experience

- **Water Watchers (Volunteer)** — Remote (Canada)
  Web Developer & Designer — *Jul 2025 – Sept 2025*
  - **Website redesign**: Led a complete redesign of the NGO website to a modern, responsive UI; improved cross-device accessibility and reduced perceived load time (measured improvements 45%).
  - **CMS migration**: Migrated legacy layouts into a CMS-based structure (NationBuilder) and developed reusable page templates so non-technical staff can update content easily. Integrated micro-interactions and storytelling animations using GSAP and ScrollTrigger to increase engagement and clarity of content presentation.
  - **Performance & optimization**: Optimized CMS performance by improving image pipelines, lazy-loading assets, and trimming unused CSS/JS; reduced page weight and improved Lighthouse scores.
  - **Usability & accessibility**: Conducted usability testing with volunteers and implemented WCAG 2.1–aligned improvements to navigation, contrast, and keyboard accessibility.
  - **Collaboration**: Worked closely with the Canadian design and communications team to ensure brand consistency and SEO optimization across landing pages.

Projects

- **Velar — Personal Finance Tracker**: Cross-platform mobile app built using **Flutter** with a **Node.js** backend, **MongoDB** for persistence, and **RabbitMQ** for real-time synchronization.
  - Implemented a **regex-based transaction parser** to extract and classify expenses directly from bank emails with high accuracy.
  - Designed an intelligent categorization system that learns from user corrections to improve spending insights over time.
  - Built visual analytics dashboards featuring monthly overviews, category charts, and saving projections.
  - Added offline sync with background data updates using RabbitMQ, enabling seamless cross-device access.
  - Containerized the backend using Docker and implemented CI/CD pipelines with GitHub Actions, reducing manual deployment effort by 70%.
- **Seko — E-commerce App**: A complete e-commerce solution developed with **Flutter**, **Python, Django**, and **PostgreSQL**, optimized for both performance and scalability.
  - Developed product browsing, search, and filter functionalities with pagination and dynamic sorting for a smooth shopping experience.
  - Built **real-time cart synchronization** using WebSockets, ensuring updates reflect instantly across user sessions.
  - Optimized PostgreSQL queries with indexing and caching strategies, reducing average API response time by 80%.
  - Deployed containerized microservices with auto-scaling and health checks for fault-tolerant performance.
- **MapLayer (San Diego Project)**: Interactive data visualization platform built with **React** and **GeoJSON** for visualizing geospatial datasets.
  - Implemented modular **map layers** to display environmental zones, infrastructure layouts, and population density.
  - Integrated **Leaflet.js** for real-time rendering of large GeoJSON datasets, improving performance via lazy loading and data clustering.
  - Added a custom search engine for dynamic filtering by region, type, and environmental parameters.
  - Designed intuitive map interactions — including hover tooltips, layer toggles, and zoom-based visibility control.
  - Implemented caching with service workers and compression techniques to handle up to 200MB of map data efficiently.

Programming Skills

- **Languages**: Dart, JavaScript, TypeScript, C++, Python, SQL **Technologies**: Flutter, Node.js, Express.js, MongoDB, PostgreSQL, RabbitMQ, RESTful APIs, Firebase, Docker, Django ,Git & GitHub