GLEN JAYSON DMELLO

Full Stack Developer

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SUMMARY

Full Stack Developer specializing in the **MERN stack**, modern backend frameworks, and **Flutter-based mobile development**. I design and build scalable APIs and responsive web and mobile applications, with hands-on experience in authentication, payments, real-time features, AI integrations and open-source collaboration. Comfortable delivering cross-platform solutions backed by well-architected services, with hackathon-proven delivery under tight deadlines.

TECHNICAL SKILLS

Languages:	JavaScript (ES6+), TypeScript, Java, Dart
Frontend:	HTML5, CSS3, Tailwind CSS, React.js, Redux, Flutter
Backend:	Node.js, Express.js, NestJS, Prisma ORM
Databases:	MongoDB, PostgreSQL, Firebase Firestore
Authentication:	Firebase Auth, JWT
Tools:	Git, Docker, Postman, Linux
Soft Skills:	Problem Solving, Communication, Teamwork, Adaptability

EXPERIENCE

Full Stack Developer — Hackfest'24 (Team Epsilon)   March 2024
SAP x PSG iTech Hackathon   *Coimbatore, India*

– Secured **Top 93 out of 2,500+ teams** in a national SAP hackathon.
– Developed **DConnect**, a dynamic carpooling platform enabling real-time role switching for drivers and passengers.
– Implemented secure authentication, booking workflows, and a responsive UI; collaborated across frontend and backend teams under tight deadlines.

PROJECTS

PhishGuard — Browser Security Extension | *React, TypeScript, Redux, Node.js, Express, MongoDB*   2025
– Developed a real-time anti-phishing browser extension as a **College PBL project** with heuristic URL and content analysis; enabled user reporting of suspicious links, built an admin dashboard for verification and centralized blacklisting, enforced pre-navigation warning/block pages with proceed/back options, implemented JWT authentication for secure access, exposed Node.js/Express APIs, and added multilingual support (English, Hindi, Kannada) using i18next.

FluentEdge — AI-Powered English Learning Platform | *Flutter, NestJS, PostgreSQL, Prisma, Firebase*   2025
– Developed an AI-powered English learning platform with a Flutter frontend and a NestJS backend exposing GraphQL APIs featuring typing and speaking tests, implemented Firebase Authentication for user sign-in and Firestore-based leaderboards, managed application data using Prisma with PostgreSQL, and integrated Groq for AI-driven text evaluation along with Whisper Large v3 for speech transcription and pronunciation analysis.

QOSMOS — Quantum Computing Simulator | *HTML, CSS, JavaScript, Node.js, Firebase, MongoDB*   2025
– Built a web-based quantum computing simulator as a **College Major Project** featuring a drag-and-drop circuit builder, real-time multi-qubit simulation, and interactive visualizations. **Led full-stack development** by creating the core simulation engine in JavaScript and connecting it to a Node.js backend; bridged the gap between design and infrastructure by implementing dynamic UI state updates while securing user authentication and data persistence via Firebase and MongoDB.

PG Finder — Full Stack PG Platform | *React, Redux, Node.js, Express, Firebase, MongoDB*   2024
– Developed a full-stack accommodation discovery platform enabling users to find, filter, and book Paying Guest (PG) listings with Firebase Authentication and Razorpay-based payments; built a Node.js + Express.js backend exposing REST APIs consumed by a React frontend, enhanced with Redis-based caching for frequently accessed data and API responses, Cloudinary media handling, and an AI-powered PG Assistant chatbot using Groq Cloud API and Qdrant vector database.

EDUCATION

Bachelor of Engineering in Computer Science   2022 – 2026
St. Joseph Engineering College (VTU)   *Mangaluru, Karnataka*

ACHIEVEMENTS

Hackfest'24 — SAP National Hackathon
– Ranked among the **Top 4%** of nationwide participants; delivered a working prototype with real-time communication and scalable full-stack architecture.