

# 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, JWT Auth  
**Databases:** MongoDB, PostgreSQL (Prisma), Firebase  
**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; 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.