RAYAN PINTO

Software Engineer
Computer Science and Business Systems Student

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SUMMARY

Computer Science and Business Systems student with a solid foundation in full-stack development and hands-on experience building scalable web and mobile applications. Contributed to the design and implementation of reliable backend APIs, user-friendly interfaces, and effective database solutions. A fast learner, eager to grow, and motivated to apply skills to create meaningful, real-world solutions.

EXPERIENCE

AI Intern   Jan 2026 – Present
Niveus Solutions (Part of NTT DATA)
▸ Working on GCP-based solutions and proof-of-concept implementations for client requirements.
▸ Assisting in system integration, architecture discussions, and deployment optimization initiatives.

PROJECTS

E-Commerce Mobile App   *Flutter, Dart, Node.js, MongoDB, JWT*
▸ Built a full-stack e-commerce mobile app with secure authentication (JWT + refresh tokens).
▸ Developed RESTful APIs for products, carts, orders, and payments.
▸ Optimized MongoDB with indexing and caching, reducing load times.

Obscura (Team Project): Privacy-Preserving Data System   *React Native, Supabase, AES, Differential Privacy, CTGAN, TensorFlow*
▸ Developed a mobile-first system with client-side encryption, differential privacy, and synthetic data generation.
▸ Built survey + OCR pipelines (AES-256, Supabase) and applied CTGAN + Differential Privacy for secure analysis.
▸ Designed multi-layer privacy architecture protecting against breaches, inference, and insider threats.

Multimodal Agentic Framework for Behavioral Profiling (Team Project)   *Python, Whisper Fast, DeepFace, Opencv, ADK*
▸ Building a real-time pipeline extracting 40+ behavioral signals from speech and facial data.
▸ Integrating ADK agent for contextual attention/fatigue scoring with low-latency optimization.
▸ Designing evaluation harness and logging framework for multi-session performance testing.

Query Parallax   *Go, Docker, Minikube, Next.js, PostgreSQL*
▸ Built a distributed Map-Reduce engine parallelizing SQL queries across dynamic workers for 4-10x speedup.
▸ Implemented Kubernetes HPA to auto-scale worker pods based on CPU load, reducing resource usage by 40%.
▸ Developed a real-time Next.js dashboard to visualize distributed query pipelines, worker metrics, and system latency.

EDUCATION

B.E. in Computer Science and Business Systems   **2022–2026**
St. Joseph Engineering College, Mangalore   **CGPA: 9.26/10**
Pre-University Course   **2020–2022**
St. Aloysius PU College, Mangalore   **Marks: 97%**

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C, Go
Web & Mobile Developement: React.js, Node.js, Express.js, Django, FastAPI, Vite, Flutter
Databases & Tools: MongoDB, Mongoose, MySQL, Firebase, Docker, Git/GitHub, PowerBI
AI / ML Tools and Frameworks: Scikit-Learn, TensorFlow, Whisper, CNN, RNN, Transformer, ADK

AWARDS & ACHIEVEMENTS

🏆 **HackToFuture 2.0** Winner (February 2024)
🏆 **HackEVL** Winner (September 2025)
🏆 **First Highest Marks** (2023 - 2025)

🏆 **Technova 2025** Winner and Best Innovation (November 2025)
🏆 **Outstanding Performance in Academics** (2025-2026)