

PRATHAM JAISWAL

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Skills

- **Programming Languages:** C, C++, Go, Swift, Kotlin, Dart, Node.js, Python
- **Libraries and Frameworks:** Flutter, React.js, Vue.js, Express, ESP-IDF
- **Tools:** Git, JetBrains IDE, Arduino IDE, Docker, MongoDB, Redis, PostgreSQL, N8n workflows
- **Cloud / AI platforms:** AWS, OCI, GCP, Serverless, OpenAI, Gemini
- **Other Skills:** Data Structures and Algorithms, System Design, RESTful APIs, gRPC, GraphQL, Microservices, Linux, Embedded Systems

Experience

Cisco Systems (India) Pvt. Ltd.

Software Engineer - 2

Full-time | 2025 – Present

Irys (India) R&D Pvt. Ltd.

Software Engineer

Full-time | 2023 – 2025

- Led the development of **AI-powered customer engagement and smart selling features** in TiaraNxt, integrating with **OpenAI GPT models** and **real-time voice recognition APIs** to generate context-aware product recommendations. The system dynamically builds session context and continuously displaying relevant product suggestions.
- Identified bottlenecks in legacy server-side data import logic. Redesigned and implemented a new import process, reducing import time by approximately **90%** and monthly infrastructure cost by **over 50%** (from \$1,400 to \$600), earning commendation from CEO and directors.
- Proposed and led development of a **Session** feature enabling multiple devices to scan in parallel and sync progress in real-time. Solved scanning issues for large jewelry stores with distributed categories reducing man hours required for Stocktake.
- Developed cross-platform **Flutter plugin** and **React Native module** for integrating with UHF RFID scanners via native SDKs; used by multiple ERP partners for enabling RFID features in their products and by large clients.
- Served as a technical and functional bridge in high-stakes business contexts; represented the engineering team during key client visits and product demonstrations.

Software Engineer Intern

Part-time | 2021 – 2023

- Spearheaded the complete redevelopment of the legacy Android-only **Tiara** application into **TiaraNxt**, a modern, RFID based cross-platform stocktaking solution for the gems and jewelry industry using **Flutter**, **Material** and **iOS design systems**.
- Designed and implemented **BLE integration** for real-time communication with multiple UHF RFID readers, optimizing tag scanning for inventory audits in retail and exhibition scenarios.
- Engineered a **high-performed Stocktake module** leveraging optimized data structures, 3-layer architecture, and **BLoC state management**, outperforming legacy and competitor solution in speed.
- Contributed to a solution that became a showpiece at exhibitions and client demos; praised by CEO as **“a self-selling product”** requiring no additional sales pitch.

Projects

Handheld UHF RFID Reader Personal Hardware Product

- Designed and built a high-speed handheld RFID reader through 3 hardware iterations, now **production ready**.
- Developed custom PCB, motherboard, and battery management system for efficient, portable performance.
- **Developed lightweight custom encryption algorithm** supporting 200+ command variation, with minimal performance overhead.
- **Developed secure firmware** with BLE, Wi-Fi and USB communication.
- Developed native and cross-platform SDKs for iOS, macOS, Android and Windows.

AI BOM Optimizer Google Marketplace Add-on for Spreadsheets and Chrome extension

- Tool fetches real-time MPN pricing from selected vendors
- Uses AI to check BOM health and recommend the most cost-effective purchase for electronic BOMs.

Education

MIT WPU, Pune | B. Tech in Computer Science | 9.5 CGPA | 2019 – 2023

Achievements

Techie of the Year

Irys (India) R&D Pvt. Ltd. | 2023 – 2024