

# MAXWELL FERNANDES

Sanguem, Goa

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## Education

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**Goa College of Engineering, Farmagudi, Goa**

*Bachelor of Engineering in Computer Engineering*

**Expected May 2026**

*CGPA: 8.5 (Current, 6th Semester)*

**Guardian Angel Higher Secondary, Curchorem, Goa**

*12th Science (PCMB)*

**Completed March 2021**

*Percentage: 82%*

## Technical Skills

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**Programming Languages:** Java, C++, C, Dart, Python, JavaScript, TypeScript

**Frameworks/Technologies:** Flutter, Firebase, Node.js, MongoDB, SQL, React, TailwindCSS

**Tools:** Git, Android Studio, VS Code, Figma, IntelliJ IDEA, Docker

## Projects

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**Quickart - Grocery Delivery App (Client and Admin Apps)** | *Flutter, Dart, Firebase*

- Engineered a mobile app suite for grocery delivery: a customer-facing **client app** and a separate **admin app**, built with **Flutter**, **Dart**, and **Firebase**.
- Developed the **client app** with features like product browsing, **real-time search**, secure order placement, and user profiles.
- Architected the **admin app** for grocery store operations: **inventory management**, **order processing**, **delivery driver management**, and **sales analytics**.
- Leveraged **Firebase** for **user management**, **data synchronization**, **server-side logic**, and **push notifications** across both apps.
- Managed the project lifecycle, ensuring robust, scalable apps aligned with requirements.

**Personal Portfolio Website** | [GitHub](#) | *React, TypeScript, TailwindCSS, Framer Motion*

- Built a performant single-page application using **React** and **TypeScript**, implementing component-based architecture with strict type safety.
- Engineered interactive UI features including **real-time particle system background**, **custom animated cursor** with context-aware behavior, and **smooth scrolling** with section-based navigation.
- Implemented fluid animations and transitions using **Framer Motion**, enhancing user experience with dynamic content loading and interactive elements.
- Leveraged modern development tools: **Vite** for optimized builds, **TailwindCSS** for responsive design, and advanced state management patterns.
- Demonstrated expertise in performance optimization, component composition, and modern web development best practices.

**Download Accelerator** | *Java*

- Developed a **multi-threaded download accelerator** in **Java**, improving download speeds by concurrently downloading file chunks.
- Implemented **pause and resume functionality**, allowing users to preserve download progress across sessions.
- Designed a **metadata persistence mechanism** using **AES encryption** to securely store download state and resume interrupted downloads.
- Developed a **command-line interface** for managing downloads, offering options to start, pause, resume, and exit downloads gracefully.
- Implemented robust **error handling** with **retry mechanisms** and detailed **logging** using **java.util.logging** to track download progress and diagnose potential issues.

## Certifications

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**The Joy of Computing using Python** - NPTEL

**Networking Virtual Internship** - Zscaler