

# MAXWELL FERNANDES

Sanguem, Goa

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## Education

**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: 81%*

## Technical Skills

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

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

**Tools:** Git, Android Studio, VS Code, Jenkins, Postman, Figma

## Projects

**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.

**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

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

**Modern C++ - NPTEL**

**Computer Networking - Zscaler**

## Additional Information

**Languages:** Fluent in English, Konkani, and Hindi