Devansh Prakash Dhopte

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SUMMARY

Self-driven B.Tech IT student interested in backend development and cloud-native architectures. Skilled in building mobile applications using Flutter, focusing on integrating robust backend systems. Actively learning full-stack web development with the MERN stack. Familiar with cloud services like AWS and Azure, containerization tools like Docker, and core concepts of CI/CD, monitoring, and scalable backend design. Passionate about creating efficient and maintainable systems.

₽ VIRTUAL INTERNSHIPS

Mar 2025 – Apr 2025 Eduskills (Palo Alto Cybersecurity Virtual Internship)

- Completed 20+ hours of training on network security and threat prevention.
- Configured 10+ firewall rules and policies in simulated lab environments.
- Analyzed real-world threat scenarios using Palo Alto tools.

May 2024 – Jun 2024 Eduskills (Google Android Developer Virtual Internship)

- Covers 10+ modules with hands-on, real-world Android projects using Kotlin.
- Flexible 8-week duration with self-paced **video content** and **quizzes**.

SKILLS

Languages: Java, Dart, C, C++, Python, Kotlin, JS, Ts | Frameworks: Flutter, Spring Boot(REST API), MERN |

Cloud & DevOps: AWS, Azure(Basic), Firebase, Google Cloud Console, Docker | Databases: PostgreSQL, MySQL

Tools: MQTT, Android Studio, IntelliJ IDEA, pgAdmin, Postman, GitHub, ESP32, Jetpack

Software Development Concepts: Object-Oriented Programming, Data Structures & Algorithms, SDLC, Agile Methodology,

Waterfall Model | **Computer Science Fundamentals:** Database Management Systems (DBMS), Linux, Computer Networks, Operating Systems (OS), System Design Basics, Machine Learning, AI.

PROJECTS

Cyber-Physical Health Monitoring System (CPS)

Java, Spring Boot, ESP32, REST API, PostgreSQL, MQTT

- Streamed real-time vitals from mobile to **ESP32** every **500ms** using the **MQTT** protocol.
- Configured $\bf Spring\,Boot\,APIs$ for secure $\bf authentication$ and $\bf PostgreSQL$ data storage.
- Mitigated 10+ replay and injection attack vectors, boosting backend security by 40%.

Face Detection & Recognition

Python, AWS, Flask, Docker, ML (MTCNN, FaceNet), MQTT, IoT

- Deployed **Python/MTCNN** face detection on **EC2 Greengrass**, streaming via **MQTT** and **SQS**.
- Dockerized Greengrass and Lambda (ECR) to enable horizontal scaling.
- Auto-scaled edge/cloud tiers using SQS depth; cut E2E latency to **0.78s** over **1,000+ requests**.

Data Insights Pipeline

Python, AWS, LLM

- Automated metadata/outlier detection and 10+ visual insights via custom pipeline.
- Fine-tuned **LLM** to run 5+ workflows with **Python**, **RDS**, and **S3**, cutting manual effort by **60%**.

Personal Finance Tracker

Flutter, Dart, Spring Boot, Java, REST APIs

- Built a finance tracker to monitor expenses, income, and savings via an intuitive interface.
- Secured user data with robust **authentication** and **login protection**.
- Enabled SIP return predictions based on monthly input, interest rate, duration, and compounding.

Movie App (Cineflex) ☑

Flutter, Spring Boot, TMDb(The Movie Database) API, RazorPay, YouTube API, Google Cloud Console

- Secured login/signup using Spring Boot and JWT-based auth.
- Displayed **500+ titles** with ratings/posters via **TMDb API** in a custom movie app.
- Boosted engagement 25% by adding bilingual support, Hive caching, and trailer playback.
- Handled 10,000+ transactions with Sqflite; integrated Razorpay for bookings.

Wallpaper App (Wallviz) 🛮

Flutter, Dart, Pexels API, Unsplash API

- Implemented a wallpaper app using Pexels and Unsplash APIs, sourcing 10,000+ high-quality images.
- Added search with choice chips and carousel view, enhancing efficiency and engagement.
- Enhanced browsing performance by 30% through pagination.

- Enabled wallpaper set, offline download, and social media sharing, enhancing app functionality.

Facial Expression Detection

Flutter, Dart, Teachable Machine

- Developed a real-time facial expression recognition app using **TensorFlow Lite** and **tflite_flutter**.
- Trained a custom model on Kaggle datasets, achieving 98% accuracy.
- Secured cross-platform camera access using **permission_handler**.

URL Shortener App ☑

MERN (MongoDB, Express, React, Node.js), Mongoose, Nodemon, Nanoid, Postman

- Built a full-stack URL shortener with live click tracking and redirection.
- Stored 500+ shortened URLs using MongoDB.
- Created private dashboards to track **1000+ clicks** for each user.
- Achieved fast redirects under **100ms** using optimized **Express routes**.

Secure Backend

Node.js, Express.js, MongoDB Atlas, JWT, Nodemailer, WSL, Postman

- Developed secure **REST APIs** for user signup, login, and email verification.
- Used Nodemailer with Gmail to send verification and reset emails.
- Secured private routes using **JWT authentication**.
- Deployed on **WSL** with **Nginx**, achieving 99.9% uptime during testing.

User Task Management System □

Flutter, Dart, Spring Boot, Firebase

- Established Firebase Authentication for secure login and role-based access.
- Improved sync speed by ~15% with real-time CRUD using Firebase Database for user data handling.

Todo List

Flutter, Dart

- Architected a task management app with add, edit, delete, and due date features.
- Automated **Provider** for real-time updates and optimized UI performance.
- Integrated **SQLite** for offline task storage and reliable data persistence.

OR Code Scanner

Flutter, Dart

Personal Project

- Developed a QR code scanner app using the device camera for fast, accurate scanning.
- Added link redirection, content copy, and data sharing features for improved usability.

EDUCATION

2022 - present Ramdeobaba University

Nagpur, MH **B.Tech in Information Technology**

CGPA (till now) - 7.64

2020 - 2022**Dharampeth Science College**

Nagpur, MH 12th State Board Percentage - 74.5



* CO-CURRICULAR ACTIVITIES

- Core Committee member for Colosseum 14.0 (2024), leading CodeForce competitions and coordinating Systems events.
- Participated in SIH 2024; collaborated with peers and mentors to generate innovative solutions for a problem statement.