

Chandan Gepala

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SKILLS

Proficient in: Java, Kotlin, Flutter, Jetpack Compose, Firebase, Git

Familiar with: Kotlin Multiplatform (KMP), Spring Boot, Node.js, REST APIs, AWS, Embedded C.

IDEs: Android Studio, IntelliJ IDEA, VS Code, Cursor.

EXPERIENCE

Research Software Engineer

CYENS Centre of Excellence

February 2025 – July 2025, Nicosia, Cyprus

- Developed and tested proof-of-concept models for 6G-enabled Industrial IoT (IIoT) systems as part of the Adroit6G project.
- Architected a decentralized, peer-to-peer wireless network that dynamically establishes a tree topology among mobile devices for robust, off-grid communication.
- Engineered the integration of BDIXAgent, an intelligent AI agent, to autonomously manage network connections in a mobile application, optimizing for ultra-low latency and high throughput within a 6G test environment.

Senior Software Engineer

Primary Healthtech

June 2024 – January 2025, Noida, India

- Architected a robust, on-device Quality Check (QC) protocol to automate self-diagnostics and ensure data integrity for an analyzer device, boosting performance and operational reliability in the field.
- Significantly enhanced core app functionality and established a new test flow, leading to a 25% reduction in app crashes and higher overall code quality.
- Reduced total testing time on a biochemistry analyzer by 50% by designing and implementing a parallel processing architecture that significantly streamlined its workflow.

Android Developer

Gumb AG

April 2023 – March 2024, Gumb AG, Switzerland (Remote)

- Led the Android team in building a rapidly growing event scheduling app with over 10,000 active users.
- Achieved a 62.5% improvement in app startup time through strategic caching and resource optimization, resulting in an enhanced user experience and engagement.
- Reduced app navigation time by 40% by implementing intuitive bottom and side navigation bars, significantly improving user interaction and flow.
- Proactively identified and resolved critical software issues, leading to a 30% reduction in app crashes.

Software Developer

Primary Healthtech

January 2022 – March 2023, Guwahati

- Led the software team in securing the data link between the app and its diagnostic hardware, deploying AES encryption (Javax Crypto) to eliminate major security flaws and protect sensitive user data.
- Implemented seamless offline capabilities to ensure data integrity in remote locations, utilizing Room for on-device caching and WorkManager for reliable background synchronization with AWS.
- Achieved a 30% improvement in app performance by leveraging multithreading techniques with RxJava 2.0.
- Established reliable serial communication with a portable medical diagnostic device via its USB port, enabling seamless data exchange.

Android Developer

Tirupati Software Infotech

March 2021 – October 2021, Jaipur Rajasthan

- Built a robust Android app for a hospital management system utilizing the Model-View-Presenter (MVP) architecture.
- Seamlessly implemented REST APIs using Volley and Retrofit 2.0, enabling secure and efficient data communication between the app and the server.
- Integrated video calling for patient consultations using the Jitsi Meet API, enhancing patient convenience and remote healthcare accessibility.

PROJECTS

Jaipur Quest

Personal Project • June 2025 – Present

- Developed an AI-enabled tourist guide app showcasing a complete list of tourist attractions.
- Integrated text-to-speech functionality to enhance accessibility and user interaction.
- Enabled users to instantly access historical information by taking a photo of a landmark.
- Built the application using Flutter, managing state with the Provider package and integrating the Gemini 2.5 Flash API for AI-driven features.
- Leveraged Firestore and Firebase Cloud Functions for all backend services.

KwizzEase

Personal Project • July 2025 – August 2025

- Architected and built an intelligent quiz generation tool that streamlines educational content creation by converting static documents into engaging, interactive quizzes.
- Accelerated the development of a cross-platform application by leveraging AI-powered tools (Cursor) to generate 80% of the codebase, enabling a focus on core logic and feature implementation. The final product, built with Flutter and Cubit, delivers a high-performance experience for document uploads, quiz customization, and in-depth performance analysis.
- Integrated Gemini API to power the core logic, enabling dynamic content parsing, multi-language translation, and question generation.

Clean Lakholav

Personal Project • June 2025 – July 2025

- Community engagement project to restore and maintain a historical water body, leveraging social outreach to secure volunteer participation and ensure its long-term preservation.
- Developed the client application using Jetpack Compose and Kotlin, with the REST APIs built on Spring Boot.
- Developed and deployed the Clean Lakholav website using the Firebase for backend services and hosting.

EDUCATION

B.E. in Electronics And Computer Engineering

M.B.M. Engineering College (Currently MBM University) • Jodhpur • 2017
