Mathew Charles

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CAREER OBJECTIVE

Motivated Computer Science graduate interested in Android development, with knowledge of Java and Kotlin, and familiarity with MVVM architecture, REST APIs, and Data Structures & Algorithms. Eager to learn modern Android tools like Jetpack components and contribute to real-world projects in a collaborative team environment.

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, SQL, Dart

Android Development: Jetpack Compose, Android SDK

Tools: MS Office, IntelliJ IDEA, VS Code, Google Colab, Git, Postman, Android Studio

Databases: MySQL, MongoDB

Frameworks: Flutter, Spring Boot, Ktor

MINI PROJECTS

PharmAi (In Progress)   Dec 2025 - Present
Kotlin, Android, Jetpack Compose, REST APIs
- Currently building an AI-assisted pharmacy application for medicine lookup, identification, and alternative drug suggestions
- Implementing modern UI with Jetpack Compose and MVVM architecture
- Integrating REST APIs for drug database search and secure data handling
- Exploring on-device ML (TensorFlow Lite) for future medicine image recognition features

News App | **GitHub Link**   Jan 2025 - Mar 2025
Kotlin, Android, Jetpack Compose, MVVM
- Developed a modern Android news app using Kotlin, Jetpack Compose, and MVVM architecture
- Integrated NewsAPI with Retrofit and implemented offline caching and bookmarking using Room database
- Used StateFlow, Hilt, and Material Design 3 to build a responsive and scalable UI

Todo App with User Collaboration | **GitHub Link**   Oct 2024 - Dec 2024
Kotlin, Ktor, WebSockets
- Built using Kotlin/Ktor with PostgreSQL database
- Implemented user authentication and task sharing features
- Added real-time updates using WebSocket connections
- Phase 2 Implementation: Extending to Android app with Jetpack Compose for full-stack Kotlin development

EXPERIENCE

Infosys Springboard Virtual Internship 6.0   Dec 2025 - Feb 2026
Infosys Springboard - Java Full Stack
- Completed real-time project: Campus Lost and Found system for educational institutions
- Implemented backend logic for lost–found item management and intelligent keyword/location-based matching, integrating MySQL for optimized data storage and improving item recovery efficiency
- Designed RESTful APIs using Spring Boot for seamless communication between frontend and database
- Implemented user authentication and authorization using Spring Security with role-based access control
- Collaborated with team members using Git for version control and participated in daily stand-up meetings
- Optimized database queries resulting in 30% faster search performance for item matching algorithms

CERTIFICATIONS

Programming Using Java — Infosys

Software Engineering and Agile Software Development — Infosys

Kotlin User Group Chennai (KUG Chennai) – Attendee

Attended a community meetup focused on Kotlin fundamentals, Android development practices, and real-world industry discussions.

EDUCATION

Vel Tech University   Chennai, Avadi
B.Tech – Computer Science and Engineering   *2022 – 2026*
Nalanda International Public School   Hosur
Class XII (CBSE) – Computer Science   *2021 – 2022*