Kumarasamy K

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____Professional Summary _____

Versatile Python and Android Developer with 10+ years of experience building robust, scalable, and high-performance backend systems and mobile applications. Specialized in developing microservices and RESTful APIs using **Python**, **Flask**, and **FastAPI**, with hands-on experience in **Docker** for containerized deployments and environment consistency. Adept at designing clean, modular backend architectures with a focus on maintainability, performance, and seamless integration with frontend and mobile platforms.

Additionally, highly skilled in Android development using **Kotlin**, **Java**, **MVVM**, **Retrofit**, **LiveData**, **Coroutines**, and **Flow**, delivering engaging, user-focused mobile experiences. Proven ability to bridge backend and mobile workflows, lead cross-functional teams, and drive full-cycle application development from concept to deployment.

____ Technical Skills _____

- **Programming Languages:** Python, Kotlin, Java
- **Frameworks & Libraries:** Flask, FastAPI, Android SDK, ViewModel, LiveData, Retrofit, Coroutines, Flow
- **Architectures:** MVVM, MVC, MVP
- **Tools:** Visual Studio Code, Android Studio, Git, Firebase
- **Others:** REST APIs, Docker, Play Store Optimization

____ Professional Experience _____

Jan 2022 – Present: **Python Developer – TalentMicro Innovations Pvt Ltd**

- Designed and developed scalable backend microservices using Python, Flask, and FastAPI for a suite of enterprise and recruitment-focused mobile and web applications. The platform facilitates operations like role-based access control, job workflow automation, user profiling, and multi-tenant support for recruitment agencies.
- Implemented a publish-subscribe (Pub/Sub) model using lightweight messaging and queuing mechanisms to decouple internal services, enabling asynchronous data processing, reduced latency, and better scalability under concurrent load.

- Led key performance optimization initiatives, including response time reduction by optimizing database queries and restructuring blocking logic into non-blocking async endpoints. Achieved over 30% improvement in backend response times under peak load conditions.
- Containerized services using Docker, crafting custom Dockerfiles and managing multi-container environments with Docker Compose. Enabled consistent builds, simplified local development onboarding, and streamlined deployment across dev, staging, and production environments.
- Collaborated with cross-functional teams—including UI/UX designers and frontend web developers—to ensure seamless integration and alignment of backend workflows with evolving product requirements. Contributed to sprint grooming, architecture decisions, and API contracts.
- Applied clean architecture and SOLID design principles, introducing modular layers for high maintainability, better test coverage, and simplified debugging.
- Integrated external APIs, authentication providers, and internal tools for enhanced functionality while maintaining a lean, efficient microservices footprint.

Oct 2020 – Dec 2021: **Senior Software Engineer – Android – TalentMicro Innovations Pvt Ltd**

- Integrated **Retrofit** for efficient API consumption, ensuring smooth and secure data exchange with backend systems.
- Leveraged **LiveData**, **Coroutines**, and **Flow** for managing asynchronous operations and enabling real-time UI updates.
- Played a key role in improving user retention by 20% through feature enhancements and performance optimizations.
- Mentored junior developers and contributed to code reviews and project planning.

Apr 2016 – Oct 2020: **Software Engineer – Android – HireCraft Software Pvt Ltd**

- Developed robust Android applications with a focus on modular architecture, using **MVVM** to streamline maintainability and testing.
- Delivered smooth UI/UX by collaborating with designers and integrating third-party libraries (e.g., Glide, Firebase).
- Investigated and resolved production issues, maintaining **99.9% uptime** and ensuring minimal disruption to users.
- Enhanced application performance and scalability by optimizing background tasks and memory management.

July 2014 – Apr 2016: **Junior Android Developer – Benchmark Business Software**

- Built and debugged core features of Android apps, gaining hands-on experience with application lifecycle and component interaction.
- Added **localization** and **accessibility** support, increasing the app's usability for diverse audiences.

- Tuned database operations and optimized queries to improve responsiveness and reduce device resource consumption.
- Contributed to testing and QA efforts, ensuring stable and bug-free releases.

____ Education _____

Dr. Sivanthi Aditanar College of Engineering, Tiruchendur, Tamil Nadu
B.Tech Information Technology (2010 – 2013)

____Projects_____

Tallite - 4.5 ratings | 100+ downloads | http://t.ly/HBG8d

Tallite is a global recruitment platform that connects employers with jobseekers directly or via referral agents, enabling faster and more cost-effective hiring compared to traditional electronic sourcing methods.

Contributed to the **backend development using Python (Flask & FastAPI)** for features like job posting workflows, referral tracking, authentication, and real-time status updates. Ensured secure, scalable API communication and integrated backend services with the mobile and web frontends through RESTful interfaces.

TalliteSS | http://t.ly/dxHZg

TALLITE™ HR Suite provides end-to-end solutions for Outsourcing, Staffing, RPO, Placement, and Executive Search—combining advanced technology with real-time, right-fit talent sourcing.

Developed and maintained core **backend services using Python, Flask, and FastAPI** to power modules such as candidate profiling, job order management, role-based access, and workflow automation. Integrated RESTful APIs with external job boards and internal tools, enabling seamless data flow across recruitment processes.

CVMine - 5.0 ratings | t.ly/9Opc9

CVMine is a dynamic job platform connecting jobseekers directly with employers or referral agents—free of cost—with TAL token rewards on joining. It also secures your CV while ensuring access to top industry jobs.

EFS FMPro - *App for EFS customers and Employees*

EFS FMPro enhances service delivery by promoting stakeholder ownership and sustainability. It enables customers to manage services and track progress, while empowering assurance teams with real-time, on-the-go oversight, including QHSE management.

WhatMate - 4.1 ratings | 10,000+ downloads | http://t.ly/vjKH

WhatMate™ is an AI-driven digital experience platform for end-to-end enterprise automation, also extending to personal business tasks—delivered through a simple, chatbot-like mobile app.

FileShore | http://t.ly/dxHZg

A Tier 1 cloud platform to securely store, share, e-sign, and collaborate on documents with internal and external stakeholders.

- Share documents with employees, partners, or the public from one unified platform.
- Secure sensitive data with PIN and multi-factor authentication.
- Automate document creation with templates and forms for review, approval, or acceptance.
- Enable multi-level e-sign workflows for internal and external users.

____**Personal Information**_____

Date of Birth   19-07-1992

Permanent Address   Chennai, TamilNadu, India