

# NIKHIL SHANKAR CHIRAKKAL SIVASANKARAN

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## Professional Summary

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Software Engineer blending 8 years of production mobile development with emerging AI/ML expertise. Built and scaled fintech systems serving 1.5M daily users while architecting high-performance Android applications using modern patterns and optimization techniques. Currently expanding into Applied AI/ML with hands-on experience in LLMs, NLP, vector embeddings, and model training. Strong foundation in system architecture, performance optimization (reduced costs by 70%), and taking products from MVP to scale. Seeking to bridge mobile engineering excellence with AI/ML innovation to build next-generation intelligent applications.

## Professional Experience

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### Software Development Engineer 3 - Android

Nov 2022 - Feb 2024

Slice, Fintech

Bengaluru, India

- Designed core architecture for UPI payment system using Clean Architecture and MVI, optimizing performance for 1.5 million daily users
- Reduced network latency by 18-20% through strategic performance profiling and optimization techniques
- Mentored junior developers through comprehensive code reviews and established best coding practices across engineering teams
- Optimized CI/CD pipeline in AWS Codebuild, reducing build times by 40% and infrastructure costs by 70%
- Adopted unit testing for UPI project modules, achieving 90% code coverage
- Designed reusable library for statistical graph generation in Jetpack Compose with minimal re-composition overhead

### Software Development Engineer 2 - Android

Nov 2020 - Nov 2022

Slice, Fintech

Bengaluru, India

- Architected real-time chat feature using WebSocket integration, enabling seamless data transfer between client and backend
- Developed social media feature module as MVP within 3 weeks for A/B testing in fintech application
- Created emoji-shower library reducing memory consumption by 95% through vector image reuse
- Refactored existing app fragments to improve UI performance by optimizing layout inflation
- Initiated multi-module architecture approach, simplifying scalability and cross-team development

### Fullstack Developer iOS, Backend

Sep 2015 - Oct 2019

GreedyGame, Ad-Tech

Bengaluru, India

- Initiated iOS plugin development from scratch, learning Swift and expanding product line to attract iOS app developers
- Refactored monolithic NodeJS backend to microservices architecture using Golang, streamlining development and debugging processes
- Integrated Jenkins CI/CD pipeline, automating artifact creation and reducing manual deployment effort
- Developed integration documentation website using Angular JS, reducing integration-related customer queries

<b>Senior Developer   Android</b> GreedyGame, Ad-Tech	Sep 2015 - Apr 2018 Bengaluru, India
<ul style="list-style-type: none"> <li>- Developed core Android library for native ad integration, focusing on performance and memory optimization</li> <li>- Refactored monolithic codebase into modular architecture using design patterns, reducing development conflicts</li> <li>- Integrated multiple ad networks (Admob, Mopub, Facebook) and created wrappers for Unity and Cocos-2dx using JNI</li> <li>- Designed debugging tool app enabling faster issue resolution and reducing QA bug reporting time by 50%</li> <li>- Created Unity game engine plugin reducing initial integration time from 2 days to under 10 minutes</li> </ul>	

### Technical Skills

**Languages:** Kotlin, Java, Python, Dart, Golang  
**Platforms:** Android Studio, Firebase, AWS, PyCharm, VSCode  
**Skills:** Modular code using MVVM MVI and Clean Architecture, Complex UI Development using Compose, Design patterns, Code Reviews, Agile Planning, UI Optimizations, Performance profiling, NLP, LLMs, Model Training  
**Frameworks:** Android SDK, Jetpack Compose, Retrofit, Coroutines, Dagger, Hilt, Websockets, Material Components, SQLite, Gradle, Lottie, Room, Llama, Langchain, HuggingFace Transformers  
**Tools:** Git, AS Profiler, Github Actions, Postman, Charles, Jira, Groq, Llama  
**Database:** SQLite, Firebase Firestore, MySQL, MongoDB, Weaviate-Vector DB

### Education

<b>Post-Graduate Diploma</b> Applied Artificial Intelligence & Machine Learning   Cloud Dev-Ops Conestoga College, Waterloo	Sep 2024 - Dec 2025 Waterloo, Ontario, Canada
<b>Master of Technology</b> Software Engineering CUSAT, Kerala, India	Aug 2012 - Apr 2014 Cochin, Kerala, India
<b>Bachelor of Technology</b> Computer Science & Engineering CoET, Thalassery, India	Aug 2007 - Apr 2011 Thalassery, Kerala, India

### Personal Projects

**AIngel** - AI-powered recommendation platform integrating LLM chat functionality, leveraging multiple machine learning algorithms to analyze user conversations and generate intelligent profile matches using advanced recommendation techniques *Android, AI, LLMs, Machine Learning* | Jan 2025

**WhoLooksLikeMe** - ML-driven facial recognition system utilizing transfer learning and vector embedding technologies to enable efficient celebrity similarity matching through advanced pre-trained model comparisons *Python, Inception V3, Vector Embeddings* | 2024 Dec | [Link](#)