

TAMOJIT PAL

Senior Mobile Engineer | Mobile Architecture | iOS | Swift | React Native | AI Agents & Developer Automation | Building Intelligent Tools for Mobile Engineering @Zeta

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PROFESSIONAL SUMMARY

Senior Mobile Engineer (SDE3) with over 10 years of experience building secure, high-performance applications across the Fintech, Healthcare, and Drone Technology sectors. Currently at Zeta, my work focuses on modernizing mobile architectures and practically applying AI to daily engineering tasks. Driven by the motto that 70% of repetitive engineering work should be automated by AI agents, I build intelligent tools that refactor legacy codebases, streamline workflows, and empower developer teams to ship faster with higher quality.

TOP SKILLS & CORE COMPETENCIES

Mobile Architecture	iOS, Swift, Objective-C, React Native, SwiftUI, MVVM/MVC, Mobile SDKs.
AI & Automation	Agentic AI Workflows, LLM Integration, Developer Tooling, Release Automation.
Cloud & Backend	AWS Lambda, Serverless Computing, GoLang, GraphQL, RESTful APIs, JSON Schemas.
Enterprise & Security	Apple MDM Server Setup, Enterprise App Distribution, Data Encryption.

PROFESSIONAL EXPERIENCE

Zeta Suite • *Senior Mobile Engineer (SDE3)* Dec 2021 – Present • Bengaluru, India

- Leading the Pluxee App Migration, focusing on modernizing legacy code and bringing AI-assisted development practices to our mobile engineering team to improve overall efficiency.
- Building internal tools and AI agent workflows (using Model Context Protocol) that help automate repetitive coding tasks and translate older Objective-C code into modern Swift.
- Architected dynamic UI rendering capabilities powered by server-side JSON, which allows us to update app layouts instantly without waiting for App Store reviews, reducing release dependencies by 40%.
- Built and maintained highly reliable UPI and Card SDKs used within HDFC's PayZapp and other major fintech ecosystems, ensuring 99.99% transaction reliability.
- Consistently recognized for team impact, earning the Employee of the Quarter (2x) and Best Team Award (2x).

EagleView • *Senior Software Engineer* Feb 2020 – Dec 2021 • Bengaluru, India

- Developed the EagleView iPad solar PV design app using Swift and React Native, applying image processing to help solar installers plan projects without manual site visits.
- Improved serverless backend performance by writing GoLang microservices on AWS Lambda, speeding up report generation times by 25%.

Reliance Jio • *iOS Specialist*

Mar 2017 – Feb 2020 • Bengaluru, India

- Architected the JioMoney Mobile App and Payment Bank iOS applications, scaling the infrastructure to handle millions of daily active transactions.
- Developed a custom React Native framework and modular Couponing SDK that allowed internal teams to build and ship features 30% faster across multiple Jio apps.

Practo • *Senior iOS Engineer*

Aug 2014 – Mar 2017 • Bengaluru, India

- Built the Practo Healthcare and Doctor Search iOS app from the ground up, scaling it to support patient bookings for over 200,000 verified doctors.
- Created shared Advertising and Marketing SDKs used across various Practo consumer apps, which helped increase user engagement by 20%.

Novatium Solutions (Ericsson) • *Software Engineer (iOS / MDM)* Apr 2013 – Aug 2014 • Chennai, India

- Set up an in-house Apple MDM server and built a native iOS monitoring client, securely managing over 10,000 corporate devices.
- Developed a secure enterprise web browser and an encrypted email client to meet strict corporate compliance and data security standards.

OWN LAB WORK

- **AI Trip Planner App:** Developing a travel planner that takes casual user prompts and builds detailed, personalized itineraries. The backend connects LLMs to real-time travel APIs, with strong guardrails in place to ensure the AI suggests realistic, hallucination-free schedules.
- **AI Analytics Dashboard:** Building a dashboard that lets users ask questions about complex backend metrics in natural language. It uses LLMs to instantly analyze the data and generate clear explanations and dynamic visual charts for end-users.

EDUCATION

Master of Computer Applications (MCA)

2009 – 2012

Sathyabama University, Chennai

Bachelor of Computer Applications (BCA)

2006 – 2009

The University of Burdwan, West Bengal