



# TILAK PULI

## Senior Software Engineer

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### PROFILE INFO

Highly motivated and skilled Full stack developer with 6+ years of experience in developing and delivering enterprise-grade software solutions.

Proficient in various programming languages and frameworks, with a focus on frontend development.

Skilled in Agile methodologies and experienced in working with diverse teams to deliver innovative software solutions.

### TECH SKILLS

- React
- NodeJs
- Typescript
- Javascript, HTML, CSS
- React Native
- NestJs
- AWS
- Java & Kotlin
- MongoDB & PostgresDB
- Spring Boot and Java
- Crew AI, LangChain & Gemini API

### CERTIFICATIONS



[Meta Front-End Developer](#)

### LANGUAGES

- English
- Hindi
- Telugu



### WORK HISTORY

2023	Senior Product Engineer
Present	Travelopia
2022	Senior Software Consultant
2023	Thoughtworks
2020	Software Consultant
2022	Thoughtworks
2018	Intern
2020	Thoughtworks



### EXPERIENCE

2023	Senior Product Engineer
NOW	Travelopia
<ul style="list-style-type: none"><li>• Significantly contributed to enhancing security by developing a secure payment portal that allows Users pay by multiple payments source like Card and ACH</li><li>• Developed a portal to create travel itineraries and add various services like flights, hotels etc by integration with 3rd party service like Amadeus and IVector that provide lakhs of hotels, flights and other services</li><li>• Led the development of the user facing product for the team to display attractive travel proposals and help users understand the trip better which leads to better conversion rate.</li><li>• Worked on complex features like Google Maps Integration, feature powered by LLM to recommend user itineraries and understand the itineraries</li><li>• Use Vibe coding and help the team to use AI powered Cursor editor to improve the speed and quality of new features.</li></ul>	

**Tech Stack:** React, Typescript, NestJs and AWS



## EXPERIENCE

**2022** Senior Software Engineer

**2023** Thoughtworks – Mosip

- Developed a high-performance React Native module for BLEcommunication in an identity management app.
- Optimized Android BLE layer using Kotlin, reducing transfer time from 40 seconds to 1 second for 150KB.
- Contributed to a React Native app used by over 20 million users for secure identity management.
- Designed and developed open-source React Native SDKs for mobile security, handling API design, documentation, and testing.
- Mentored junior developers in Clean Code principles and React Native best practices

**Tech Stack:** React Native, Kotlin, Android, Bluetooth Low Energy

**2020** Software Engineer

**2022** Thoughtworks – Goldman Sachs

- Developed a scalable web dashboard to manage 300+ AWS accounts using AWS APIs, SSM documents, and Lambdas.
- Led the design and development of a React application with Redux, Jest, and Ant Design.
- Integrated with a Spring Boot backend to deliver structured responses to the UI with pagination.
- Facilitated onboarding and knowledge transfer for new team members.

---- Analytics and Credit Stream ----

- Designed Analytics dashboard for real-time visualization of 300,000+ transactions and 2000+ accounts. Handling large data coming from data lakes through Apache Flink pipelines
- Improved user experience with React, Redux, High Charts, and Material UI
- Reduced API response time from over a minute to less than 10 seconds
- Helped team improve Postgres Database design to improve efficiency and time taken processing.
- Contributed to Spring Boot microservices and developed user-facing analytics screens in a MonoRepo React application

**Tech Stack:** React, Java and Spring boot, Postgres, AWS

**2019** Software Consultant

**2020** Thoughtworks – Gojek

- Developed an employee feedback and reviews web application, optimizing ratings and hikes.
- Migrated Node.js backend to Ruby on Rails, enhancing stability and transferring data from MongoDB to PostgresDB.
- Expanded Express JS backend and introduced a parallel Ruby on Rails backend.
- Managed end-to-end product development: user stories, React UI, backend features, Kubernetes deployment.
- Travelled to Indonesia for requirements discussions and user support.
- Improved testing coverage from 40% to over 90% for backend/frontend repositories

**Tech Stack:** React, NodeJs, Express, Ruby on Rails, MongoDB, GCP



# APPS & PLATFORMS I'VE BUILT

2025 Finly – AI Expense Tracker | [Play Store](#)  
2024 Self

- Built and launched Finly, an AI expense tracker on Android with a chat interface for natural-language expense logging and queries like “How much did I spend on groceries this month?”
- Designed and implemented the backend with Node.js on Firebase Cloud Functions (Express), Firestore, and Firebase Auth; added rate-limited AI message quotas and an app init API aggregating expenses, budgets, and feature flags.
- Integrated LangChain + Google Gemini to parse free-text into structured transactions and answer analytical queries; iterated prompts for accuracy and determinism.

**Tech Stack:** Flutter, Node.js, Firebase (Functions, Auth, Firestore), Express, LangChain, Google Gemini

2025 Trackee - AI-Powered Financial Analysis Platform | [GitHub](#)  
2024 Self

- Architected sequential AI agent system using CrewAI framework with Google Gemini LLM, implementing 4 specialized financial agents (P&L, Balance Sheet, Cash Flow, Integration) that build incrementally upon each other's analysis
- Designed intelligent data flow pipeline where each AI agent generates contextual questions for subsequent specialists, preserving full context and creating comprehensive financial insights from raw market data
- Built multi-source AI data integration processing NSE API feeds, web-scraped financial data, and conference call transcripts through specialized agents with confidence scoring and data quality assessment
- Implemented production AI orchestration with CrewAI flows, async agent processing, structured Pydantic schemas, and intelligent caching for scalable financial analysis automation

**Tech Stack:** CrewAI, Google Gemini LLM, Sequential Agent Architecture, Context Preservation, Python, FastAPI, Pydantic, Web scrapping



# EDUCATION

2019 Bachelor of Computer application  
2021 Alagappa Univeristy, Chennai

2015 Diploma: Computer & Maintenance Engineering  
2018 MBTS Polytechnic College, Guntur, Andhra Pradesh