Shammas K T

Full Stack Developer | AI & Data Science Experience

Calicut, Kerala, India | +91 85900 01067 | shammashassan.kt@gmail.com | Portfolio | LinkedIn | GitHub

PROFESSIONAL SUMMARY

Full Stack Developer with hands-on experience building production-grade web and mobile applications using Next.js, React, React Native, TypeScript, Node.js, and MongoDB. Developed and deployed 4 production-ready applications including ERP platforms, an offline-first mobile ERP, a multi-auth personal finance tracker, and a developer resource management system. Completed a 7-month Data Science internship delivering customer analytics, predictive models, and business insights. Experienced in full-stack development, mobile application engineering, database design, authentication, offline-first architecture, and AI-assisted software development. Seeking Full Stack Software Engineer opportunities in India and the UAE.

TECHNICAL SKILLS

- **Frontend** — Next.js, React, React Native, Expo, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, shadcn/ui, NativeWind
- **Backend** — Node.js, Express.js, REST API Design, Next.js Route Handlers, Server Actions, Authentication, Better Auth
- **Database** — MongoDB, Mongoose, MySQL, PostgreSQL, SQLite, Drizzle ORM, SQL Query Optimisation
- **Data / ML** — Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook
- **DevOps & Tools** — Git, GitHub, Vercel, CI/CD (GitHub Actions + Vercel), Resend, Android Studio
- **Concepts** — Offline-First Architecture, MVC Architecture, RESTful APIs, RBAC, Authentication & Authorization, WebAuthn/Passkeys, TOTP, FIDO2, Responsive Design, Agile
- **AI / GenAI** — Prompt Engineering, AI-Assisted Development, AI Coding Agents (Claude Code, Cursor, Codex, Google Antigravity), ChatGPT, Gemini

WORK EXPERIENCE

10/2024 – 05/2025
Bengaluru, India

Data Science Intern, *AI Variant*

- Analysed ecommerce customer session data using Python and Pandas to determine whether the client shouldprioritise their mobile app or website; findings directly shaped a product roadmap decision presented tostakeholders.
- Built customer segmentation models using K-Means clustering (scikit-learn), identifying 4 distinct behaviouralsegments that enabled targeted marketing campaigns for the client.
- Delivered classification and regression models with documented accuracy metrics in formal client-facingreports; output was used directly in stakeholder presentations to support business investment decisions.

PROJECTS

Zyn ERP (30+ Modules) — Enterprise Resource Planning System,
Next.js · TypeScript · Node.js · MongoDB · shadcn/ui · Vercel

- Architected and developed Zyn ERP, a modular ERP platform with 30+ business modules covering billing, inventory, employee management, accounting, expenses, reporting, and role-based access control.
- Designed MongoDB schemas and built 50+ REST API endpoints using Next.js Route Handlers and Node.js; deployed to Vercel with automated GitHub CI/CD.

ZynMobile — Offline-First Mobile ERP, *React Native · Expo · TypeScript · SQLite · Drizzle ORM · Zustand · NativeWind*

- Architected and developed a production-ready offline-first mobile ERP for retail businesses covering POS,inventory, purchasing, expenses, payroll, reporting, barcode scanning, backup/restore, app lock, andthermal printing.

- Designed a local-first architecture using SQLite and Drizzle ORM with transactional data consistency,configurable cost-price strategies, PIN/biometric security, background tasks, notifications, andcross-platform Android/iOS builds.

Dime — Personal Finance Tracker, *Next.js · TypeScript · MongoDB · Better Auth · shadcn/ui · Resend · Tailwind CSS*

- Built and deployed Dime (https://dime-tracker.vercel.app), a production-ready personal finance platform with transaction management, budgeting, recurring expenses, analytics, and user-isolated financial data.
- Implemented Better Auth with email/password, Google OAuth, Magic Links, Passkeys (WebAuthn/FIDO2), and multi-factor authentication, plus invite-only onboarding and transactional email workflows.

Volt — Developer Resource Platform,
Next.js · TypeScript · React · shadcn/ui · MongoDB · Better Auth · Tailwind CSS · Vercel

- Built and deployed Volt (https://ui-volt.vercel.app), a searchable developer knowledge platform with workspaces, custom categories, tags, multiple resource types, and command-driven capture and discovery.
- Integrated TMDB/AniList media watchlists, scheduled notifications, and relationship-aware resource organization into a unified productivity platform.

Personal Portfolio Website, *Next.js · TypeScript · React · shadcn/ui · Tailwind CSS · Vercel*

- Built a clean, responsive portfolio site with Next.js App Router and TypeScript, deployed to (https://shammas-kt.vercel.app) with automatic CI/CD via GitHub.

Career Guidance App — AI-Powered Android Application, *Python · Android · NLP · Scikit-learn · REST API*

- Developed an Android app that parses uploaded resumes using NLP to extract skills and traits, then recommends relevant courses and job roles via a Python classification model served over a REST API.
- Achieved measurable relevance improvements over a keyword-matching baseline through iterative model fine-tuning.

Ecommerce Customer Behaviour Analysis, *Python · Pandas · Scikit-learn · Matplotlib*

- Performed exploratory data analysis on customer session data to surface device-level engagement patterns; built predictive models to forecast conversion likelihood.
- Delivered a written analytical report with visualisations used directly in a client stakeholder presentation to inform a mobile-vs-web investment decision.

Customer Segmentation using Clustering, *Python · K-Means · Seaborn · Scikit-learn*

- Applied K-Means and hierarchical clustering to segment customers by purchase behaviour and engagement frequency; validated cluster quality with silhouette scores.

EDUCATION

07/2021 – 04/2024
Kerala
Bachelor of Computer Applications (BCA),
College of Applied Science, Korangad, Thamarassery — University of Calicut

03/2019 – 07/2021
Kerala
Higher Secondary — Science Stream, *Government Higher Secondary School, Puduppadi*

CERTIFICATIONS & COURSES

- **Data Science Internship Certificate** — 05/2025 | 7-month programme with live project delivery and industry mentorship
- **Data Science Certification** — 02/2025 | Core curriculum: Python, ML algorithms, statistical analysis, model deployment
- **One Million Prompters Certificate** — 2024 | Prompt Engineering for AI Systems — issued by Dubai Government initiative

LANGUAGES

- **English** (Professional working proficiency)
- **Malayalam** (Native)