

Dhanush P K

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SUMMARY

Software engineer building financial infrastructure — multi-tenant lending platforms, bank-to-bank payment orchestration, and the queueing and auditing that keep them correct under failure. Node.js, TypeScript and Go on the backend; React, Next.js and Swift when the problem reaches the user.

PROFESSIONAL EXPERIENCE

Nav Technologies

May 2025 – Present

Software Development Engineer

Kochi, India

- Led a team architecting **COLIGO 7.0** with multi-tenant architecture, transaction-safe processing and a caching layer, enabling onboarding of an NBFC client with **150+ branches**, **Rs.500+ Cr AUM** and **Rs.1+ Cr** in daily transaction value.
- Built a **payment gateway** for a major financial organisation orchestrating transactions between multiple banks, on a queue-based asynchronous architecture using **Node.js**, **Kafka** and **PostgreSQL** with standard encryption, logging and authentication.
- Delivered that gateway end to end — REST APIs, webhook endpoints, the dashboard and payment-status checking — and owned it through production rollout.
- Architected a **Redis-backed queue and watchdog** that auto-detects and reruns failed or stalled jobs, replacing unreliable cron scheduling and eliminating silent failures for a major client.

Nav Technologies

Jan 2025 – Apr 2025

Software Development Intern

Kochi, India

- Integrated **KYC checks**, **eNACH** processing and other key workflows, automating major parts of the system.
- Implemented a **TOTP-based authentication microservice** for secure sign-in, token issuance and authorisation across multiple platforms and services.

Lascade App Studio

Aug 2024 – Oct 2024

Software Developer Intern

Kochi, India

- Developed a SaaS iOS application using AR for measurement, handling end-to-end development including UI design and AR feature implementation, achieving over **10,000 downloads** with **90% accuracy**.

PROJECTS

Bastion-OS | Go, PostgreSQL, Docker, OIDC

- Building a containerised bastion / jump-host platform that brokers secure, audited access to internal infrastructure, treating the bastion as a protocol-aware proxy rather than a shared SSH host.
- Implemented an SSH proxy with session recording, OIDC device-flow authentication against Keycloak, and deny-by-default RBAC in PostgreSQL, so users never hold the target system's real credentials.

Medic | Go, Docker, CLI

- Built a single-binary environment health diagnostic for on-call triage and CI preflight, sweeping host, Docker and dependency checks in one pass and exiting non-zero so it drops straight into pipelines.
- Every failing check emits a remediation hint; user-defined checks are added in YAML without recompiling, and Docker Swarm checks activate automatically on manager nodes.

JustDate | Next.js, Turborepo, Supabase

- Developed a full-stack dating application using Next.js with Turborepo and Supabase, featuring real-time matching, messaging and end-to-end message encryption.
- Deployed and scaled the platform across **3 university campuses**, supporting over **1000 active users** in real time.

Passkey Linker | JavaScript | Deprecated

- Built and published an NPM package for integrating passkey authentication into web apps, abstracting away FIDO2's setup complexity.
- Implemented FIDO2-based challenge-response flow with RSA for encryption, handling registration and login end-to-end.
- Published on npm with **50+ weekly downloads**.

ChatWithDB | NestJS, Node.js

- Implemented Retrieval-Augmented Generation (RAG) architecture for querying NoSQL databases using natural language.
- Optimized for low-latency responses, ensuring fast and efficient data retrieval and conversational performance.

ARMeasure | *Swift, ARKit*

- Pioneered an iOS app with augmented reality features, enhancing precision through LiDAR integration.
- Integrated SwiftData for efficient local data management and used shader techniques to optimize visualization and overall app performance.

EDUCATION

Cochin University of Science and Technology

Bachelor of Technology in Computer Science

Cochin, India

Aug. 2021 – Apr. 2025

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Go, Swift, Python, Java, Dart, SQL

Frameworks: Node.js, Nest.js, Express, React, Next.js, Angular, React Native, SwiftUI, Flutter, FastAPI

Data & Messaging: PostgreSQL, MySQL, Oracle DB, MongoDB Atlas, Supabase, Firebase, Redis, Kafka

DevOps / Tools: AWS, GCP, Docker, CI/CD, Monitoring, Alerting, Backup, Linux

Security: OIDC, TOTP / 2FA, WebAuthn (FIDO2), JWT, RBAC, KYC & eNACH integrations

VOLUNTEERING AND ACCOMPLISHMENTS

- **Top 20 Finalist**, Nomura KakushIN 2024, Mumbai.
- **Tech Lead**, TEDxCUSAT 2024.
- **Web Developer**, Dhishna 2023.
- **All India Rank 1**, Pondicherry Central University Entrance Exam 2021-22 (5-year Integrated M.Sc Mathematics).