

Krishnakumar S

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Summary — Backend Engineer - Node.js, TypeScript, Python (Django, FastAPI), Scalable APIs. Engineered secure OAuth and RBAC systems, enhancing API reliability by 20% . Built and scaled real-time WebSocket chat systems serving 100+ concurrent sessions. Delivered production-ready backend architectures in both Node.js and Python stacks.

Skills

Languages	TypeScript, JavaScript, Python, SQL	Databases	MongoDB, PostgreSQL
Backend	Node.js, Express, Fastapi, Django, WebSocket, REST APIs, MCP	Frontend Concepts	React, Nextjs, Tailwind, Expo Authentication (JWT, OAuth, RBAC), API Security, CI/CD (Basics)
DevOps & Tools	Linux, Git, GitHub, Docker, Postman, Jenkins, GCP basics	Foundations	DSA, Computer Networks, OS, DBMS, OOP, System Design (Basics)

Experience

- Backend Developer — Wave Scholar (MyAnatomy Integration)**Jul 2025 – Dec 2025
- Implemented secure authentication using Passport.js, Google OAuth, JWT, and RBAC to protect backend APIs.
 - Built a real-time chatbot backend with REST APIs and WebSockets, supporting 100+ concurrent sessions.
 - Improved API reliability by reducing recurring production errors through enhanced error handling and dependency cleanup.
- Pastry shop — E-Commerce Platform**2025
- Built a production-grade e-commerce platform for a client using Next.js 15, TypeScript, and PostgreSQL (Supabase).
 - Designed hybrid architecture using PostgreSQL for persistent data and Redis for checkout sessions, caching, and rate limiting.
 - Implemented secure authentication (NextAuth + Supabase), Razorpay payment integration with webhook validation, and role-based admin dashboard.
- Web Development Intern - Nxtlogic Software Solutions**2023
- Developed responsive pages with HTML, CSS, and JavaScript.
 - Optimized layouts for cross-device performance and accessibility.

Projects

- Bill Vision – Retail POS System**
- Built a full-stack, real-time POS system for retail and café operations with scalable backend architecture.
 - Designed RESTful APIs and implemented role-based authentication and authorization.
 - Engineered high-performance checkout flow using keyboard-driven UX to improve transaction speed and reliability.
 - Tech stack: React, TypeScript, Tailwind CSS, Node.js, Express, MongoDB. [Live Link](#)
- Starlietti – EV Station Finder**
- Developed location-based service platform for discovering EV charging stations with real-time data rendering.
 - Built backend APIs with Node.js and Express; integrated geospatial data and MongoDB storage.
 - Delivered responsive, cross-platform UI using React and interactive mapping technologies. [Live Link](#)
- Vigor-X – Personalized Meal Planning & Fitness Mobile App**
- Designed and developed a full-stack wellness platform with a cross-platform mobile application (React Native/Expo) and a scalable microservices backend.
 - Implemented secure API gateway architecture using Node.js/TypeScript (Express) and FastAPI, integrating PostgreSQL for reliable data storage and JWT-based authentication.
 - Engineered AI-powered meal planning and fitness recommendation pipelines through RESTful APIs while optimizing mobile performance, UX, and data reliability.

Education

- KIT – Kalaigarkarunanidhi Institute of Technology**2022 – 2026
- Bachelor of Engineering in Computer Science and Engineering*CGPA: 8.1

- Certifications**
- Mastering Docker: Containers, Networking, and Orchestration - Code Signal
 - Python Foundation – Infosys Springboard
 - Programming in C – NPTEL
 - Web Development (HTML & CSS) – TechA Foundation