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Summary

Software Engineer with **3+ years of experience** building scalable web applications, business software, and backend systems. Experienced in delivering **end-to-end solutions** across e-commerce, ERP, CRM, and business automation platforms. Passionate about solving real-world problems through **clean architecture, maintainable code**, and reliable software that drives business growth.

Experiences

Software Engineer (Freelance)

Jan 2024 - Present

- **Delivered four production software products** across retail, FinTech, e-commerce, and customer communication domains by **leading end-to-end product development, driving technical decisions**, and translating business requirements into scalable software solutions.
- Led engineering execution across client engagements by coordinating development activities, **reviewing implementations**, and **integrating enterprise systems** including POS, inventory management, order processing, and customer communication workflows.
- **Improved business efficiency** by architecting secure authentication, role-based authorization, real-time collaboration, and automated document generation while building **scalable backend services** and **reusable software components for production environments**.
- Standardized software delivery through infrastructure automation, CI/CD pipelines, cloud deployments, environment management, and proactive stakeholder communication, **consistently delivering milestones on schedule** while providing ongoing production support.

Full Stack Engineer - Wonderwhy Solution

Nov 2024 - Nov 2025

- Enhanced a production-grade **fleet and business management platform** by developing scalable features for **trip operations, fleet management, expense tracking, payroll, vendor management, and profitability reporting** within a **multi-tenant SaaS application**.
- Improved application **reliability and maintainability** through modular backend development, secure REST APIs, database optimization, **structured logging**, and **collaborative code reviews**, enabling efficient feature delivery and simplified long-term maintenance.
- Accelerated product delivery by **collaborating with cross-functional teams** on **requirement analysis, solution design, testing, deployment, and production support** while following **Agile development practices** and modern software engineering standards.

PROJECTS

Multi-Agent Customer Communication System

- Centralized customer communication across multiple business branches by developing a **real-time WhatsApp operations platform** supporting collaborative agent workspaces, **bulk messaging campaigns, SLA-aware ticketing**, and integrated **customer management**.
- Improved messaging reliability through an **event-driven architecture** using **BullMQ, Redis Pub/Sub, and Socket.IO**, while building a modular webhook processing framework to normalize diverse WhatsApp event payloads for scalable, **fault-tolerant message processing**.
- Streamlined business operations by implementing secure authentication, **role-based access control**, automated CI/CD pipelines, and cloud infrastructure, delivering a production-ready platform integrating messaging, **website administration**, and operational workflows.

Bilingual FinTech Business Platform

- Digitized **customer onboarding** for a regulated financial institution by developing a bilingual FinTech platform **supporting online membership applications, domain-specific chit calculators**, and automated legal document generation across 4 business entities.
- Simplified business operations by architecting secure REST APIs, a headless content management system, multilingual content delivery, and reusable backend services, enabling seamless **administration across 4 operational branches**.
- Automated legal document processing through a **scalable PDF generation** pipeline with dynamic templates, **digital signatures**, cloud storage, and CI/CD-enabled AWS deployments, improving operational efficiency and deployment reliability.

Grocery E-Commerce Platform

- Modernized retail operations by developing a full-stack e-commerce platform integrating product catalog, **order management, delivery coordination**, and administrative workflows, enabling seamless online and offline business operations.
- Designed a **hybrid data architecture integrating MongoDB with an existing SQL Server POS system, synchronizing inventory**, pricing, and product catalogs to maintain consistency across online and in-store sales channels.
- Improved platform scalability and operational reliability by implementing **secure authentication**, Redis-backed caching, automated **deployment pipelines**, and AWS infrastructure, delivering a production-ready solution for day-to-day retail operations.

Technologies and Languages

Languages: TypeScript, JavaScript (ES6+) Python, SQL, HTML/CSS

Technologies: React, Next.js, Node.js, Express.js, PostgreSQL, MongoDB, Redis, Prisma ORM, AWS (EC2, S3, RDS, CloudFront, SQS), Docker, Docker Compose, Terraform, Nginx, Git, GitHub, CI/CD, Linux, REST APIs, Socket.IO, WebRTC, OAuth, Tailwind CSS, Vitest

EDUCATION

B.E. Electronics and Communication, Kumaraguru College of Technology, Coimbatore, TN, India

2019 - 2023

Achievements & Leadership

- Served as Vice-Captain and Electronics Team Member of a Formula Student team, **leading technical coordination** while contributing to vehicle telemetry, data acquisition, and cross-functional engineering collaboration throughout the vehicle development lifecycle.
- Achieved 2nd Place in the Formula Bharat Endurance Event and 5th Place in the SUPRA SAEINDIA **Business Plan** Presentation, demonstrating engineering excellence, **teamwork, technical problem-solving**, and **business-oriented solution development**.