

Vinod Nalamati

FULL-STACK ENGINEER | SOLUTION ARCHITECT | EARLY-STAGE ADVOCATE

Full-Stack Software Engineer with over a decade of experience delivering high-performance web applications in financial services and enterprise sectors. Expert in React, TypeScript, Node.js, and Python (Django/FastAPI) with proven track record building scalable trading platforms, data visualization tools, and AI-powered solutions processing millions of transactions daily.

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🌐 linkedin.com/in/vinod-n-9978a53b3 📍 Houston, TX

</> TECHNICAL SKILLS

🗂️ LANGUAGES

JavaScript, TypeScript, Python, Java, C#, C++, Lua, PHP, SQL, HTML/CSS

📱 FRONTEND

React, Next.js, WPF, Tailwind CSS, Bootstrap, Material-UI, shadcn/ui, Redux, React Query, Recharts, Framer Motion, Three.js, P5.js

🖥️ BACKEND

Node.js, Express.js, Django, FastAPI, Flask, REST APIs, GraphQL, WebSockets, MQTT, gRPC, Swagger/OpenAPI, Unicorn, Celery, HLS.js

🗄️ DATABASES

PostgreSQL, MySQL, MariaDB, MongoDB, Firebase, Redis, Supabase, Prisma, Objection.js, Django ORM, Algolia

🚀 DEVOPS

Docker, Git, GitHub Actions, CI/CD, GCP, Vercel, Heroku, Nginx, Caddy, Cloudflare, Cloudflare Workers, Tailscale, WhiteNoise

🧪 TESTING

Jest, Pytest, Playwright, Puppeteer, Postman, Storybook, React Testing Library, ESLint, Prettier, Husky, Commitlint

🔒 SECURITY

JWT, OAuth 2.0, NextAuth.js, Authentication, Authorization, RBAC, Data Encryption, Audit Logging

🔧 TOOLS

Zod, Joi, Vite, Webpack, Sentry, Winston, Resend, React Email, Nodemailer, PDF.js, WordPress, Shopify, Processing, Arduino, PWA, JIRA, Agile/Scrum

🏢 PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co.

📍 Senior Software Engineer | 📍 Houston, Texas, United States

📅 August 2023 – February 2026

🚀 Trade Confirmation Portal

Engineered a full-stack web application automating post-trade confirmation workflows between internal trading desks and external counterparties, replacing manual email-based processes. Cut trade confirmation time by 93% (from 4 hours to 15 minutes) while processing 850,000+ trades with 99.8% straight-through processing rate and zero data integrity issues.

Technologies: React, TypeScript, Material-UI, Redux, Node.js, Express.js, REST APIs, WebSockets, PostgreSQL, Redis, Jest, React Testing Library, Playwright, Docker, GitHub Actions, GCP, Zod, JWT, OAuth 2.0

🚀 Risk Exposure Reporting Tool

Built a real-time data visualization platform enabling traders and risk managers to monitor portfolio exposure, market risk, and regulatory limits across 2,000+ trading positions. Enhanced dashboard load time by 87% (1.1s vs 8.3s) and lowered backend calculations from 3.2s to 280ms, supporting 150+ concurrent users during peak trading hours.

Technologies: Next.js, TypeScript, Tailwind CSS, shadcn/ui, Recharts, Framer Motion, FastAPI (Python), REST APIs, WebSockets, PostgreSQL (time-series optimizations), Redis, React Query, Pytest, Jest, Docker, GitHub Actions, GCP

🚀 API Gateway Modernization

Led the migration of 40+ legacy SOAP/XML services to modern RESTful microservices architecture, improving developer experience and system reliability. Achieved zero production incidents during migration, lowered API response times by 85% (120ms vs 800ms), and enhanced system uptime from 97.2% to 99.9%.

Technologies: Node.js, Express.js, TypeScript, Django REST Framework, Swagger/OpenAPI, PostgreSQL, Prisma ORM, OAuth 2.0, JWT, Sentry, Winston, Jest, Postman, Docker, GitHub Actions, GCP Cloud Run

Infosys

👤 Senior Software Engineer | 📍 Houston, Texas, United States

📅 November 2018 – June 2023

🚀 AI-Powered Document Processing UI

Architected an intelligent document processing platform enabling banks to automate data extraction from loan applications, KYC documents, and contracts using AI/ML pipelines. Managed 2.5 million documents with 94% accuracy, cut processing time from 8 minutes to 45 seconds, and decreased human review workload by 76%.

Technologies: React, TypeScript, Material-UI, Redux Toolkit, Django, Django REST Framework, Celery, Python, PostgreSQL, MongoDB, Redis, Firebase Storage, WebSockets, Jest, React Testing Library, Pytest, Docker, GCP

🚀 Client Analytics Dashboard

Built a unified analytics platform providing leadership visibility into project health, resource utilization, and delivery metrics across 50+ concurrent client engagements. Cut executive reporting time from 2 days to 10 minutes, boosted dashboard load time by 85% (1.2s vs 8s), and enhanced delivery predictability by 35%.

Technologies: Next.js, TypeScript, Tailwind CSS, Recharts, Django REST Framework, Django ORM, PostgreSQL, Redis, React Query, JWT with RBAC, Pytest, Jest, Docker, GitHub Actions, Vercel

TriNet

👤 Software Developer | 📍 Austin, Texas, United States

📅 June 2018 – November 2018

🚀 HR Request Ticketing Module

Created a self-service employee portal with intelligent workflow routing for HR requests, streamlining time-off approvals, benefits inquiries, and document requests. Lowered HR resolution time by 77% (from 3.5 days to 8 hours), managed 15,000+ requests with 99.2% on-time completion, and decreased call center inquiries by 63%.

Technologies: Vue.js, TypeScript, Tailwind CSS, Express.js, REST APIs, MongoDB, Firebase Storage, Nodemailer, React Email templates, JWT, OAuth 2.0, Jest, Puppeteer, Docker, GitHub Actions, Vercel, Heroku

Wells Fargo

👤 Frontend Developer | 📍 New Jersey, United States

📅 January 2018 – April 2018

🚀 Fraud Alert Triage System

Developed a real-time fraud detection and investigation platform for security analysts to prioritize, investigate, and resolve suspicious transactions across retail and commercial banking operations. Cut investigation time by 64% (from 22 to 8 minutes), boosted fraud detection rate by 28%, and enabled analysts to review 40% more cases daily (from 85 to 119 cases per analyst).

Technologies: React, TypeScript, Tailwind CSS, shadcn/ui, Framer Motion, GraphQL, WebSockets, Algolia, Zod, JWT with RBAC, Jest, Playwright, Storybook, ESLint, Prettier, Husky, Docker, Vite

Freelance Consulting

👤 Independent Software Consultant | 📍 India

📅 June 2009 – April 2016

🚀 Custom Web Applications & Business Solutions

Delivered custom web applications and consulting services to small businesses, startups, and individual clients across diverse industries including e-commerce, healthcare, education, and professional services. Completed 30+ projects across 10+ industries, built e-commerce platforms processing \$500K+ annually, and maintained 95% client satisfaction rate.

Technologies: JavaScript, jQuery, PHP, Python, Django, MySQL, PostgreSQL, HTML/CSS, Bootstrap, WordPress, Git, Apache, Linux

🎓 EDUCATION

📅 2005 – 2009

Bachelor's in Information Technology

Pondicherry University, India