

Vishal Rajendra Pednekar

Full Stack Software Engineer | New York, NY

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SUMMARY

Full Stack Software Engineer with 2 years of experience building Angular and React interfaces on Laravel and Node.js backends. Sustained 75K+ weekly transactions at 99.9% uptime, lifted a Lighthouse score from 57 to 98, and shipped LLM features over Gemini and local Ollama. MS in Computer Engineering, Virginia Tech.

SKILLS

Frontend & Mobile: React, Next.js, Angular, Flutter

Backend & Systems: Node.js, Express.js, Laravel, Flask, FastAPI, REST APIs

Languages: TypeScript, JavaScript, Python

Databases: PostgreSQL, MySQL, MongoDB

AI/LLM: LangChain, Google Gemini API, Ollama

Cloud & DevOps: AWS, Azure, GCP, Docker, CI/CD, Linux/Unix

EXPERIENCE

Visible Technologies LLC | Software Development Engineering Intern | Los Angeles, CA Jun 2025 - Aug 2025

- Reduced **crash rate 25%** and **load times 40%** by migrating a production Flutter codebase from Bloc to clean architecture using **Riverpod**.

- Rebuilt the Flutter app across **5 core modules** with a new visual design and animations, working within an Agile Scrum team.

Fourth Signal India Private Ltd. | Web Developer | Mumbai, India Jul 2023 - Jul 2024

- Broke **3,000+ line** monolithic files into modular components while migrating legacy modules to **Angular 16**.
- Boosted **Lighthouse score from 57 to 98** through lazy loading, rendering optimization, and a reusable component library.
- Rebuilt the backend on a RESTful **Laravel** architecture with **JWT/OAuth-based RBAC** and token expiry, replacing a legacy vanilla-PHP codebase.
- Sustained **75K+ weekly transactions** at **99.9% uptime** and cut deployment time **~70%** after decomposing a legacy monolith into independently deployable **Azure Docker** microservices that isolate module failures.

GODJN Solutions Private Ltd. | Mobile Application Developer Intern | Pune, India Sep 2021 - Apr 2022

- Backed all **4 applications** with server-side **RESTful APIs**, building backend services in vanilla PHP and later **Laravel**.
- Maintained platform infrastructure uptime by managing **Linux, Nginx, SSL**, and **SSH** operations.
- Delivered **4 production Flutter applications** end-to-end, from build through **AWS/GCP** backend deployment.

PROJECTS

Streetwise - NYC Rental Risk Scoring Tool | Built for NYC (NYPL x MLH) Hackathon 2026 [GitHub](#) | [Live Demo](#)

- Rebuilt a hackathon prototype into a deployable product across **55 frontend files**, rewriting the homepage, theme, and component library and replacing sample data with real cached reports.
- Cut NYC 311 data response time from **2.5s to ~2ms** on warm requests with a **MongoDB** caching layer in an **Express** backend.
- Kept plain-language risk explanations available during model outages through a provider-agnostic AI layer switching between local **Ollama** and **Gemini** over a deterministic template fallback.
- Covered the backend with a **472-test Vitest** suite spanning scoring, caching, rate limiting, and AI provider behavior on an in-memory **MongoDB** test harness.

LunaFlow - Cycle-Aware Productivity Planner | Hackviolet 2026 [GitHub](#) | [Demo](#)

- Built the **Google Calendar and Tasks** integration end to end, implementing the OAuth flow and token persistence in an **Express** and **TypeScript** service and the **React** hooks consuming it.

SentiMint - Multi-Agent Stock Analysis Tool | Agent Hacks 2025 [GitHub](#) | [Demo](#)

- Built the financial data scraping package behind a multi-agent stock analysis pipeline, exposing a tested, modular scraper through a **LangChain Tool** interface consumed as a dependency.

EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech) | Blacksburg, VA

Master of Science in Computer Engineering | GPA: 3.85/4.0 | Aug 2024 - May 2026

University of Mumbai | Mumbai, India

Bachelor of Engineering in Computer Engineering | GPA: 9.05/10.0 | Aug 2019 - Jul 2023

PUBLICATION

Enhancing Security Surveillance Through Business Intelligence with NVIDIA DeepStream, Springer (LNDECT), 2024
(doi.org/10.1007/978-981-97-0293-0_7)

CERTIFICATIONS

AWS Academy Graduate: Cloud Foundations; Machine Learning Foundations