Shubhay Harnale

Software Engineer | Full-Stack & Backend
U.S. Citizen

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Education

Rutgers University
B.S. Computer Science **December 2026**

- **Relevant Coursework**: Data Structures and Algorithms, Computer Architecture, Discrete Structures, Calculus I & II

Technical Skills

- **Languages & Full-Stack**: Python, TypeScript, JavaScript, Java, C/C++, SQL, React, Next.js, FastAPI, Node.js, Express
- **Cloud, DevOps & Testing**: AWS, Docker, Kubernetes, Terraform, Ansible, Jenkins, GitHub Actions, pytest, Jest, Playwright
- **Databases & AI**: PostgreSQL, MongoDB, Supabase, Pydantic, OpenAI API, Mistral AI, LLM integration

Work Experience

Neutrino Tech Systems, *DevOps Engineer* **June 2024 – September 2024**

- Engineered CI/CD pipelines using Jenkins and GitLab CI/CD to automate application build, testing, and deployment workflows for an AWS-based client environment, reducing manual steps across the software delivery lifecycle.
- Containerized application workloads with Docker and supported deployment and orchestration through Kubernetes, creating repeatable deployment configurations across development and cloud environments.
- Automated cloud infrastructure provisioning and environment configuration using Terraform and Ansible, applying Infrastructure as Code (IaC) practices to make infrastructure reproducible, version-controlled, and easier to maintain.
- Integrated CI/CD, containerization, Kubernetes, and infrastructure automation into a standardized deployment workflow, improving deployment consistency and reducing configuration drift between environments.

Freelance Full-Stack Engineer, *Self-Employed* **June 2025 – Present**

- Delivered production React and TypeScript platforms for startups and local businesses, including *HighendBarbershop* (a well-known barbershop in Morristown) and *Koi AgeTech Ventures*.
- Rebuilt and optimized a booking platform serving **2,000+** daily visitors and **5,000+** during peak periods, supporting reliable customer bookings under production traffic.
- Integrated booking, CRM, and email workflows using Node.js, PostgreSQL, Supabase, Growthzilla, and HubSpot; developed admin systems and booking automation.

ChartUPP, *Full-Stack Engineer* **July 2025 – Present**

- Creator partnership marketplace that connects brands and creators to discover opportunities, launch campaigns, manage applications, communicate, and collaborate through a unified platform.
- Built and deployed the full-stack platform using React, Node.js/Express, MongoDB, and Socket.IO, with real-time messaging and production deployment on Netlify and Render.
- Engineered end-to-end campaign publishing, creator discovery, applications, messaging, and deal workflows, with cookie-based authentication and role-specific authorization.

Projects

DriftGuard – Local-First AI Data Reliability Agent **August 2026**

- Built a local-first reliability agent that infers data contracts from trusted CSV/JSON samples and detects breaking schema and data-quality changes before they propagate into downstream applications.
- Architected a hybrid repair engine combining deterministic field matching with schema-constrained OpenAI reasoning for ambiguous mappings, translating every suggestion into an allowlisted transformation DSL rather than executing generated code.
- Developed checksummed source preservation, isolated repair previews, deterministic validation, human approval, rollback, append-only audit trails, and feedback-driven proposal ranking; verified the workflow with pytest, Playwright, Docker, CI, and a reproducible corruption benchmark.

SiteCheck – AI-Powered Website Audit Tool **February 2025**

- AI-powered website audit platform that analyzes websites for SEO, GEO (Generative Engine Optimization), AEO (Answer Engine Optimization), conversion, and technical issues, helping businesses improve visibility across traditional search engines and AI-powered discovery.
- Engineered an automated crawling and analysis pipeline using Next.js, TypeScript, Playwright, and the OpenAI API to extract page content, metadata, and site structure and generate actionable optimization recommendations.
- Built a client-ready audit and reporting system that transforms technical findings into prioritized, plain-language recommendations for improving search visibility, AI discoverability, and website conversion.

Chess Game Analyzer **July 2025 – Present**

- Built an AI-powered chess coaching platform that transforms uploaded games into personalized lessons, explaining why mistakes happen and suggesting better moves to help players improve.
- Combined Stockfish and OpenAI to generate position-aware recommendations and plain-language explanations, using WebAssembly and Web Workers for browser-based analysis without blocking the interface.
- Attracted **60+** unique visitors and **20+** new users every two weeks, offering interactive game reviews, move-quality classifications, and practice exercises across desktop and mobile.