

LENEY GANNASAN

Full Stack Engineer

✉ leney.gannasan1@gmail.com | ☎ (732) 618-4638 | 🌐 github.com/ami3g | 📍 New Jersey



PROFESSIONAL EXPERIENCE

Full Stack Engineer Intern @ NoPlex [🔗 Live](#)

Summer 2024

React, React Native, Node.js, Express, Redux, TypeScript

- Shipped 4 iOS screens used by 100+ beta users by building profile, settings, and onboarding flows in React Native.
- Reduced a 3-step manual process to a single tap by implementing a full-stack profile update feature with a React Native form, Express REST endpoint, and PostgreSQL persistence.
- Cut UI-related bug reports during QA by centralizing cross-screen client state with Redux, eliminating data sync issues.
- Maintained zero-regression deployments for core features across weekly sprint cycles through peer code reviews and technical design sessions.

PROJECTS

Florafy: Multi-Tenant 3D E-commerce & POS Platform

Fall 2025

Next.js 15, PostgreSQL, React Three Fiber, Stripe, Hyperswitch, UberDirect API, Resend

- Supported independent branded stores by architecting a multi-tenant storefront engine using Next.js 15 and a 24-model PostgreSQL schema with row-level security across 15+ tenant tables and dynamic subdomain routing via a single codebase.
- Leveraged React Three Fiber and procedural geometry to develop an interactive 3D customizer, supporting real-time pricing updates across 13+ flower types rendered directly within the React checkout pipeline.
- Designed a logistics dispatch system utilizing Nearest-Neighbor TSP optimization with 3-mile geographic clustering and 2-hour windows, integrating Google Maps Platform and automated UberDirect API courier dispatch.
- Unified POS and online operations by integrating Stripe and Hyperswitch orchestration with a 4-type transaction ledger and batch expiry tracking for 150+ SKUs, managed via a 2-tier RBAC admin dashboard.

GitLore: RAG-Powered Repository Intelligence Engine [🔗 Live](#)

Spring 2026

TypeScript, LanceDB, Transformers.js, HNSW-SQ, Ollama/OpenAI SDK, React, VS Code API

- Engineered a privacy-first RAG system indexing 4 data sources (git commits, source files, GitHub PRs, static call graph) into an on-device LanceDB vector store with zero data exfiltration, shipped as a VS Code extension, standalone CLI, and desktop app.
- Improved broad-query recall without reindexing by constructing a 5-intent query router (overview, historical, implementation, debugging, general) with weighted reranking that expands top 5 results from 256-line chunks to full-file context.
- Optimized vector search to $O(\log n)$ on 10K+ rows via HNSW scalar quantization (384-dim \rightarrow int8) and reduced re-index time to seconds using SHA-256 content-hash diffing and incremental git log extraction.
- Expanded indexing with a static call graph via web-tree-sitter AST parsing across 9 languages, guarded by a 57-rule exclusion filter blocking secret, binary, and lockfile leakage. Stress-tested on the Express.js repo (12,889 commits, 2,443 PRs, 11,404 call graph edges).

Lyze: AI-Powered IT Audit Platform

Spring 2026

Next.js 15, React 19, FastAPI, PostgreSQL + pgvector, AWS Bedrock/Ollama, Presidio, Unstructured.io, Docker

- Delivered a multi-tenant AI audit platform using Next.js 15 and FastAPI, guiding auditors through a 4-phase lifecycle (Planning \rightarrow Fieldwork \rightarrow Reporting \rightarrow Published) with row-level security enforcing per-tenant pgvector isolation.
- Leveraged Microsoft Presidio and Unstructured.io to build a document intelligence pipeline that chunks evidence into 512-token segments, redacts PII with 7 custom IT entity recognizers, and classifies uploads across 28 audit categories with confidence scoring into a 1536-dim vector store.
- Integrated RAG retrieval with RLM recursive reasoning (up to 6 rounds) to implement a ReAct agent over 5 tools: evidence search, framework search, control listing, finding lookup, and engagement summary, producing citation-backed audit responses.
- Reduced manual reporting overhead by automating audit finding drafting using the IIA 5-element structure with top-8 RAG evidence retrieval, a 5x5 risk matrix (inherent, residual, and delta scores), and auditor override, exported as PDF or multi-sheet XLSX.

DevOps Ecommerce Pipeline [🔗 Live](#)

Summer 2025

AWS, Django, Terraform, Docker, GitHub Actions

- Streamlined full infrastructure teardown and redeployment to under 10 minutes by automating AWS provisioning (VPC, EC2 ASG, RDS PostgreSQL, ALB, bastion) with Terraform to host a scalable Django ecommerce application.
- Enabled zero-downtime deployments by designing GitHub Actions CI/CD workflows that build Docker images, run Trivy security scans, and push to ECR with rolling deployments to EC2.
- Guaranteed automatic recovery from traffic spikes and instance failures by configuring CloudWatch alarms and ASG health checks for CPU-based auto-scaling and unhealthy instance replacement.

EDUCATION & TECHNICAL SKILLS

BA in Computer Science

La Salle University, Philadelphia, PA
May 2025 (Completed)

AWS Certified Cloud Practitioner

Amazon Web Services
August 2025

Languages: Python, Java, TypeScript, JavaScript, SQL, HCL, Kotlin, XML, Bash

Frameworks: React, React Native, Next.js, Django, Express.js, Redux.js, Node.js, Transformers.js

Data: PostgreSQL, GraphQL, LanceDB

Infrastructure: AWS, Docker, Terraform, GitHub Actions, Trivy, Prometheus, Grafana, Hyperswitch, Nginx, Gunicorn

Tools: Git, Postman, JMeter, Jira, Slack, Vercel, DBeaver, Figma, Stripe, Google Maps Platform, Resend, Ollama