SHALLUM ISRAEL MARYAPANOR

shallumisrael@gmail.com | (312) 545-0405 | LinkedIn | Github | United States

Full-stack software engineer with 5+ years of experience building 0→1 AI products, scalable backends, and production-ready web applications for early-stage startups. Strong in Python/FastAPI/Node, React/TypeScript, LLM integrations, and automation workflows. Proven track record as a Founding Engineer delivering fast product iterations, AI-powered features, and high-impact systems that scale.

WORK EXPERIENCE

Coinflow Labs   **Chicago, US**
Full Stack Software Engineer (Node, MongoDB, PostgreSQL)

- Architected and deployed a scalable FP&A platform enabling real-time revenue forecasting for 100+ merchants with 7 growth models, 24+ product types, and scenario planning capabilities that reduced finance team's manual modeling effort by 80%
- Built a comprehensive fee calculation engine supporting 19+ fee categories with variable rates, min/max caps, volume-tiered pricing, waivers, and proration logic; integrated COGS calculations and gross margin analysis providing end-to-end financial visibility across payment and payout products
- Designed and deployed automated data pipelines integrating CRM webhooks and statement parsing with asynchronous job queue architecture for revenue sync, chargeback tracking, and forecast recalculation, eliminating manual data entry and reconciliation
- Optimized scalable forecast API performance by 70% through centralized data fetching, parallel processing, and intelligent caching; architected normalized database schema with 13+ entities supporting historical actuals, amendment tracking, and audit trails
- Delivered multi-dimensional analytics dashboards with payment breakdowns by BIN, decline code, card type, and wallet adoption metrics; implemented sensitivity analysis, goal seek algorithms, and variance features enabling data-driven pricing and growth decisions

Secure AI   **New York, US**
Full Stack Software Engineer (Node, MongoDB, PostgreSQL, GCP)

- Built and shipped an enterprise-scale AI compliance platform enabling GDPR, HIPAA, CCPA, EU AI Act compliance tracking for 8+ AI models, reducing manual review time by 75%
- Developed AI agents and automated enterprise workflows for risk scoring, PII/PHI detection, document processing, and audit logging capabilities using Python on scalable
- Architected backend systems for real-time compliance dashboards, enabling regulatory insights and metric visibility across

Getsupp   **Bangalore, IN**
Founding Software Engineer, Fullstack (Node, MongoDB, PostgreSQL, GCP)

- Built and integrated scalable e-commerce backend systems with Shopify, Google Merchant, and Facebook APIs using custom webhooks, improving real-time product sync reliability and platform
- Engineered distributed payment infrastructure with automated notification systems, reducing checkout processing time by 30% and enhancing operational efficiency across transaction pipelines and payment
- Designed scalable backend search and analytics engine using Postgres, developed competitive-pricing data pipelines, driving 25% improvement in pricing strategy and enabling enterprise-grade product discovery at scale.
- Enhanced backend content automation by optimizing API performance for 30% faster response times and implementing AI-powered moderation and generation workflows using asynchronous task processing for reliable scheduled

Innovaccer   **Remote, US**
Software Engineer, Product/Innocare Team (Node, MongoDB, PostgreSQL, GCP)

- Migrated monolithic Node.js services to scalable microservices architecture with OAuth2 and rate limiting, improving API reliability, scalability, and reducing latency by
- Redesigned distributed backend task architecture to achieve 99.99% reliability across asynchronous workflows, implementing prioritization logic that reduced system downtime by
- Engineered production-grade monitoring and alerting infrastructure using Celery + Redis for real-time Slack notifications, delivering sub-100ms, 99.9%-uptime backend APIs.

PROJECTS

Synderion: Hackathon Project Win – AI Enrollment Agent for Illinois tech | BrowserUse, Agno, FastAPI, TypeScript, PostgreSQL - **Github Link**
Built scalable full-stack AI platform serving 200+ concurrent users with PgVector-based embedding system achieving 94% query relevance, multi-agent automation via BrowserUse & Playwright, and document-vision pipeline with
scalability.

Panacea: AI Job Assist tool | Python, Node.js, TypeScript, PostgreSQL - **Github Link**
Developed AI-powered backend service generating tailored outreach via RAG-style generation, authentication, and containerized deployment with Docker.

Corgi (Work trial): AI-Powered Security Deposit Insurance Claims Processor | Node.js, Celery, Streamlit
Engineered async backend pipeline automating insurance claims processing using LLM vision, reducing review time from

EDUCATION

Master's in Computer Science   Illinois Institute of Technology | Chicago, IL

Bachelor of Engineering in Computer Science & Engineering   Don Bosco Institute of Technology | Bangalore, India

SKILLS

- **Languages:** JavaScript, Python, SQL, Go, Java, R, C, C++
- **Libraries & Framework:** NodeJS, React, Typescript, FastAPI, Django, Flask, DRF, Next.js, LangChain, LangGraph, Pydantic, Scrapy, Streamlit, Celery
- **Cloud Platforms:** Google Cloud Platform, GCP, AWS (Lambda, S3)
- **Databases:** PostgreSQL, MongoDB, Redis, MySQL, Elasticsearch
- **LLM & AI Tools:** OpenAI SDK, Claude (Anthropic), Gemini, Transformers (Hugging Face), Haystack, Chroma, OpenWebUI
- **Tooling & Dev Environment:** Docker, Git, GitHub Actions, Poetry, uv, Ruff, Pyright, GitLab, Bitbucket, Jira, NewRelic, Sentry, Celery-Flower, Opik (Comet)
- **Third-party API Integrations:** Shopify, Google Merchant, Facebook Merchant, Shopflo, Razorpay, Kaleyra, WhatsApp

AWARDS & ACHIEVEMENTS:

- Global Agent Hackathon - 3rd place ($800 Cash prize)

- Hackathon Winner - Getsupp Internal (₹10k Cash prize)