

# SHALLUM ISRAEL MARYAPANOR

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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

#### Full Stack Software Engineer (TypeScript, Next.js, React, PostgreSQL)

Chicago, US

Nov 2025

- Architected and developed a full-stack 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 to provide end-to-end financial visibility across payment and payout product
- Designed automated data pipelines integrating Attio CRM webhooks and processor statement parsing, implementing PG-Boss job queue architecture for asynchronous revenue sync, chargeback tracking, and forecast recalculation eliminating manual data entry and reconciliation
- Optimized forecast API performance by 70% through centralized data fetching, parallel processing, and caching strategies; designed normalized database schema with 13+ entities supporting historical actuals, amendment tracking, and audit trails for compliance
- Delivered multi-dimensional analytics dashboards with payment breakdowns by BIN, decline code, card type, and mobile wallet adoption; implemented sensitivity analysis, goal seek algorithms, and variance explanation features enabling data-driven pricing and growth decisions

### Secure AI

New York, US

#### Full Stack Software Engineer (Fastapi, React, Postgres, Typescript, GCP)

March 2025–Oct 2025

- Built and shipped a full AI compliance platform (FastAPI + React) used to track GDPR, HIPAA, CCPA, EU AI Act compliance for 8+ enterprise AI models, reducing manual review time by 75%.
- Developed AI agents and automated workflows using LangChain for tasks such as risk scoring, PII/PHI detection, document processing, and audit logging with Python and Postgres on GCP.
- Built real-time dashboards using React, TypeScript, Recharts, and Tailwind for compliance metrics and regulatory insights.

### Getsupp

Bangalore, IN

#### Founding Software Engineer, Fullstack (Django, Postgres, React, AWS)

Oct 2021–Jun 2023

- Built and integrated core e-commerce systems including Shopify, Google Merchant, and Facebook APIs with custom webhooks, improving real-time product sync and platform reliability by 40%.
- Designed full payment infrastructure using Razorpay and Shopflo with automated notifications (Kaleyra, AWS SQS/S3), reducing checkout + processing time by 30% and increasing operational efficiency.
- Engineered a distributed search and analytics engine using Postgres + Typesense and developed competitive-pricing pipelines (Scrapy), driving a 25% improvement in pricing strategy and enabling scalable product discovery.
- Enhanced the storefront and content automation by optimizing React components for 30% faster page loads and implementing OpenAI-powered moderation + blog generation using LangChain and Celery for scheduled workflows.

### Innovaccer

Remote, US

#### Software Engineer, Product/Innocare Team (Django, Fastapi, Postgres, React, AWS)

Sep 2019–Oct 2021

- Migrated monolithic Node.js services to Django/FastAPI microservices with OAuth2, rate limiting, and optimized request flows, boosting scalability and reducing API latency by 40%.
- Redesigned Celery-based distributed task architecture to achieve 99.99% reliability across asynchronous workflows, implementing task prioritization that cut system downtime by 75%.
- Built production-grade monitoring and alerting pipelines using Celery + Redis, including real-time Slack notifications, and delivered sub-100ms, 99.9%-uptime REST APIs for critical healthcare operations.

## PROJECTS

### Synderion: Hackathon Project Win – AI Enrollment Agent for Illinois tech | BrowserUse, Agno, FastAPI, TypeScript, PostgreSQL - [Github Link](#)

Built a full-stack AI enrollment automation platform supporting 200+ concurrent users. Designed a PgVector-based embedding system achieving **94% query relevance**, multi-agent automation with BrowserUse & Playwright, and document-vision pipeline with **97.5% accuracy**. Won 3rd place for innovation & scalability.

### Panacea: AI Job Assist tool | Python, Node.js, TypeScript, PostgreSQL - [Github Link](#)

Developed an AI tool that analyzes resumes + job descriptions to generate tailored outreach. Implemented RAG-style message generation, authentication, and containerized deployment with Docker.

### Corgi (Work trial): AI-Powered Security Deposit Insurance Claims Processor | Node.js, Celery, Streamlit

Automated insurance claims processing using LLM vision + async pipelines, reducing claim review time from **90 minutes to ~5 minutes** with real-time analytics.

## 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:** Python, R, SQL, C, C++, Java, Go, JavaScript
- **Libraries & Framework:** DRF, Celery, Scikit-learn, Pydantic, Django, FastAPI, Flask, Streamlit, Scrapy, React, Typescript, LangChain, LangGraph, Next.js, NodeJS, React
- **Cloud Platforms:** AWS (Lambda, S3, EC2, SQS), GCP, Cloudflare
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch
- **LLM & AI Tools:** OpenAI SDK, Claude (Anthropic), Gemini, Transformers (Hugging Face), Haystack, Chroma, OpenWebUI
- **Tooling & Dev Environment:** uv, Ruff, Pyright, Poetry, Docker, GitHub Actions, Git, GitLab, Bitbucket, Jira, Celery-Flower, NewRelic, Sentry, 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)