

Judah Paul

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PROFESSIONAL SUMMARY

Software engineer and systems administrator with 5+ years of experience building full-stack web applications, REST APIs, and production services. Creator of GPT Home, an open-source AI assistant featured on Raspberry Pi's official blog. Built and operate a domain registrar and hosting platform from the ground up. Core strengths in Python, TypeScript, Django, React, Docker, CI/CD automation, and Linux server administration.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Elixir, C++, Rust, Go, Dart, SQL, Bash, HTML, CSS

Frameworks & Libraries: Django, FastAPI, Flask, Phoenix, React, SvelteKit, Flutter, Express, Node.js, Oban, Leaflet, LangChain/LangGraph

Tools & Infrastructure: Docker, Kubernetes (K3s), Helm, Traefik, Git, GitHub Actions, GitLab CI/CD, Terraform, AWS, Cloudflare, Fly.io, Celery, Kamailio, FreeSWITCH, Stripe, Grafana, Prometheus, NGINX, Linux, JasperSoft Studio, ServiceNow, Active Directory, WHM/cPanel, SCCM/MEM

Databases: PostgreSQL, Patroni, pgvector, MySQL/MariaDB, SQLite, Redis, RocksDB, PocketBase, SQLAlchemy

PROFESSIONAL EXPERIENCE

Software Engineer, Full Stack | FluidVoIP LLC (fluidvoip.com)

Jul 2021 – Present

- Designed full database schema from ER diagram to production PostgreSQL for billing, provisioning, and call routing.
- Developed REST APIs and server/client features with Django. Packaged the runtime as a Helm chart on K3s (Kubernetes) with Traefik ingress, an HA data layer (Patroni-managed PostgreSQL, Redis Sentinel), and rolling updates that do not drop in-flight calls.
- After a week-long, 460 Gbps DDoS attack against the platform's only upstream carrier, rebuilt call routing to run across multiple SIP carriers, adding a Python carrier-abstraction layer, deploying Kamailio for the SIP edge and FreeSWITCH for the softswitch, and implementing least-cost routing with automatic carrier failover.
- Automated billing reports with JasperSoft Studio and Server API, eliminating hours of manual work per cycle. Ship updates via GitLab CI/CD.

Server Administrator | Vital Web LLC (vitalweb.io)

Jul 2021 – Present

- Built and maintain VitalWeb.io, a domain registrar and hosting service using WHMCS, WHM, and cPanel for registration, DNS, and billing.
- Administer Linux servers for uptime, security, and monitoring. Integrate vendor solutions (SiteBuilder, Sitejet, eNom) and build custom client websites.

IT Systems Administrator | Freelance

Jan 2021 – Present

- Manage Active Directory, Group Policy, and networking (TCP/IP, DNS, SSH) for client environments. Configure and deploy infrastructure and endpoints.
- Perform Linux and Windows Server administration: patching, monitoring, troubleshooting, and automation of routine maintenance via scripting.

Student Assistant, Systems Support | Georgia State University

Jan 2019 – May 2024

- Deployed software to campus endpoints via SCCM/MEM, configured hardware, managed help desk tickets through ServiceNow, and supported database implementations and modifications for faculty and staff.

SELECTED PROJECTS

- **GPT Home** – Open-source Raspberry Pi AI assistant (FastAPI, React, Docker, LiteLLM, LangGraph agents). 600+ GitHub stars, 55+ forks, 4K+ Docker pulls. Featured on raspberrypi.com.
- **TomSellIt** – Estate-sale marketplace with server-side spin-to-claim and Stripe Connect payouts (Elixir/Phoenix, React, PostgreSQL/pgvector, Oban, Fly.io). Real-time updates over Phoenix Channels; AI concierge with RAG.
- **Canary Ground Control** – Web-based drone GCS (SvelteKit, Docker, MediaMTX) for remote autopilot via MAVLink with WebRTC streaming.
- **Ghost Post** – Chrome MV3 extension (React/TypeScript) for researching public figures and companies by pulling SEC filings, archived web pages, and news into one view.
- **RocksDB Viewer** – Terminal-based interactive tool for browsing and searching RocksDB database contents in real-time.
- **Client Websites** – Production sites, GitLab CI/CD to cPanel: seedsela.com and snapinc.org (SvelteKit, Express, Postgres CMS), wowhelps.org (React, Express), atlexecpm.com (React), richhometequan.com (SvelteKit), perfectaa.com (SvelteKit).

EDUCATION

B.S. Computer Science, Georgia State University, Atlanta, GA

2017 – 2024

Concentration: Database & Knowledge-Based Systems. Completed while working full-time.

Computer Science Coursework (Transferred), Langston University, Langston, OK

2016 – 2017

Electronics pathway.