

Michael Orina

Software Engineer

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SUMMARY

Software engineer with 3+ years shipping production systems, specializing in AI-powered products end to end: LLM integration, prompt engineering, and automation pipelines that pair deterministic logic with model reasoning for reliable, low-cost output. I build and operate the full stack in Go, Python, and TypeScript, and work as an independent security researcher red-teaming frontier LLMs and hunting application-security bugs.

SKILLS

AI & LLMs: LLM integration (Anthropic Claude, OpenAI), prompt engineering & evaluation, structured / JSON output & tool use, agentic automation workflows, retrieval & AI report generation, computer-vision pipelines, inference cost / latency optimization

AI Security & Red Teaming: adversarial testing of frontier LLMs, jailbreak & prompt-injection chains, guardrail / safety-filter bypass research, Gray Swan Arena, OWASP Top 10 for LLMs

Application Security: SSRF (blind & out-of-band), BOLA / IDOR, broken access control, OWASP Web & API Top 10, Burp Suite, Caido, responsible disclosure

Languages & Backend: Python, Go, TypeScript / JavaScript, PHP, C; Node.js, Laravel, REST APIs, PostgreSQL, Redis, MySQL, MongoDB, Docker, CI/CD

Frontend & Cloud: React, Next.js, TailwindCSS; AWS (AI Practitioner + Cloud Practitioner certified), Railway, Git, Neovim

EXPERIENCE

Software Engineer & Founder

2026 - Present

Datamartics

- Built and launched an AI financial assistant on WhatsApp, where users track income and expenses through natural chat and receive AI-generated reports and insights.
- Designed a hybrid architecture that routes only report generation and media processing to LLMs (Anthropic Claude) while a deterministic classifier handles high-volume parsing, cutting inference cost and latency; built in Go on PostgreSQL and Redis with per-user AES-256 encryption.
- Engineered structured prompt templates and idempotent, scheduled AI report delivery, with Redis-cached on-demand reports and dry-run tooling to validate model output before send.

Software Engineer

Jul 2025 - Present

Ounic

- Build and deploy AI-powered web apps and APIs in Python, Go, and TypeScript, integrating LLMs and third-party APIs to automate workflows and inform product decisions.
- Ship AI features end to end and lead code reviews and CI/CD to keep delivery quality high across remote teams.

Software Engineer

Feb 2025 - Jul 2025

Inua AI Solutions

- Built computer-vision pipelines for automated image analysis and processing at scale.
- Integrated LLMs via API, engineered prompts for intelligent automation, and built data pipelines feeding model inputs and handling AI-generated outputs.

Software Engineer (Intern)

Jan 2024 - Jan 2025

NACONEK

- Built and deployed an internal communication tool that improved workflow efficiency 20%, and resolved 60+ technical issues, reducing system downtime 15%.

Backend Team Lead
AdventBand Organization

Oct 2023 - Feb 2024

- Led a backend team using Node.js, Docker, and CI/CD, improving task delivery speed 25% and cutting deployment time 40%.

Freelance Software Engineer
Independent

Mar 2022 - Jan 2024

- Delivered a Python inventory system, a Go automated-reporting tool, a task API supporting 500+ concurrent users, and a real-time analytics platform with 99% uptime.

SECURITY RESEARCH & AI RED TEAMING

Independent Security Researcher & AI Red Teamer

2024 - Present

- **AI red teaming:** compete in adversarial LLM challenges on Gray Swan Arena, building reproducible jailbreak and prompt-injection chains and mapping failures to the OWASP LLM Top 10.
- **Bug bounty:** report to enterprise programs on HackerOne, Bugcrowd, and Intigriti; findings include blind SSRF (webhook abuse reaching cloud metadata endpoints) and broken-access-control / BOLA flaws.
- **Tooling:** built a semi-autonomous hunting workflow with Claude Code, Caido, and browser automation, backed by a reusable skills library.

PROJECTS

Financial Management System (Laravel, MySQL, REST API): full-stack platform for a microfinance association covering member accounts, loan tracking, transactions, and analytics; architected the schema and API and delivered to production.

Go Tasker (Go, MongoDB, REST API): task-management app with real-time notifications and persistent storage.

CDatabase (C, pthreads): thread-safe key-value store with in-memory caching and file persistence.

EDUCATION

BSc. Computer Science

Technical University of Kenya, 2019 - 2024

Second Class, Upper Division

CERTIFICATIONS

- AWS Certified AI Practitioner
- AWS Certified Cloud Practitioner
- Backend Development, Boot.dev
- Cloud & Network Security, Cyber Shujaa
- Web Development Bootcamp, eMobilis