

Edward Sinaswee

SYSTEMS-MINDED SOFTWARE ENGINEER AND TECHNICAL ARCHITECT

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Professional Summary

Systems-minded software engineer and technical architect with more than ten years of professional experience designing, building and operating complete software products. Combines product-focused full-stack development with database engineering, Linux infrastructure, networking and deployment. Early adopter of AI-assisted and agentic software-development workflows, with a record of delivering practical systems across HR, finance, analytics, marketing and blockchain.

Core Competencies

Full-stack product engineering | System architecture | Database design | Linux infrastructure | Cloud deployment | Networking | Blockchain payments | AI-assisted development

Technical Skills

Languages: JavaScript, PHP, SQL, Python, HTML, CSS, Sass

Frameworks & platforms: Vue, React, Next.js, Node.js, NativeScript, Drupal, WordPress

Databases: MySQL, PostgreSQL, SQLite; database architecture, schema design and application data modelling

Infrastructure: Ubuntu Server, Linux, Apache, Nginx, Docker, Windows Server, Cloudflare, Vercel, GitHub, Samba, Raspberry Pi

Networking: EdgeOS, OpenWrt, Ubiquiti networking, remote systems administration and self-hosted infrastructure

Blockchain: Bitcoin node infrastructure, BTCPay Server, Web3, Ethereum and ERC-20 payment systems

AI-assisted engineering: Claude Code, Codex, Ollama; agentic development workflows and AI-assisted architecture, implementation and review

Design & media: Photoshop, Illustrator, Affinity, FFmpeg

Professional Experience

Software Engineer | Flat 18 Microsystems Development

Trinidad and Tobago | 2018-Present

- Design and deliver bespoke software products for clients across HR, finance, marketing, analytics and blockchain, with responsibility spanning discovery, architecture, implementation, deployment and maintenance.
- Delivered more than 30 client projects using modern JavaScript frameworks, Node.js, PHP, SQL databases and Linux-based infrastructure.
- Build complete systems rather than isolated features, including application interfaces, APIs, database schemas, deployment environments, reverse proxies, monitoring and operational tooling.
- Developed AI-assisted engineering workflows before agentic coding became mainstream, using generative tools to accelerate delivery while retaining architectural control and production accountability.
- Produced bespoke variants of the F18 Pay cryptocurrency payments stack for at least three commercial clients.

IT Specialist | Advanced Weighing Systems

Trinidad and Tobago | 2016-2018

- Developed internal inventory, certification, HR and salary-management systems aligned to operational requirements.
- Overhauled office IT infrastructure and integrated local and remote management across business systems.
- Supported servers, networks, business applications and users while improving reliability and administrative efficiency.

Database Engineer | Micronet

United Kingdom | 2014-2016

- Worked within delivery teams designing SQL databases and supporting applications for finance and healthcare clients.
- Translated application and reporting requirements into database structures, queries and maintainable data workflows.
- Collaborated with developers and stakeholders on database-backed systems in regulated business environments.

Selected Projects

F18 Pay | Cryptocurrency payment-processing platform

- Designed and developed a lightweight, portable Node.js alternative to a conventional BTCPay Server stack.
- Combined a central Bitcoin node for wallet-address balance checks and block history with centrally managed third-party node providers, reducing reliance on any single external service.
- Supported core payment-processor workflows for Bitcoin and later expanded to Ethereum and selected mainstream ERC-20 tokens.
- Operated as a production demonstration platform with approximately 20 active users and became the basis for at least three bespoke client implementations.

Staff Management Portal (SMP) | Workforce and HR management system

- Conceived and built the original platform end to end using Drupal, PHP, a custom Linux server and Vue CLI-based mobile applications.
- Unified location-based attendance, leave requests, holiday booking, employee records, benefits and certification or identification expiry alerts.
- Designed the server, application and mobile workflow as one coherent system, making workforce administration seamless for managers and employees.
- Later rebuilt the original concept with modern frameworks into a beta-ready third-generation platform.

Archimedes Finance | Client and manager financial platform

- Architected a finance platform with client and manager workflows, secure authentication, account linking, document capture and reporting dashboards.
- Used Vue, Node.js, PostgreSQL and supporting cloud services to deliver a maintainable full-stack foundation.

Campaign Desk | Outbound campaign and contact-management suite

- Designed a self-service campaign platform for managing prospects, templates, messages, follow-ups, analytics, audits and account settings.
- Built around a Vue single-page application, API services and structured campaign workflows, with emphasis on practical operator usability.

Signal Map | Privacy-focused analytics platform

- Built using agentic development workflows as a cookie-free analytics product focused on privacy-preserving measurement.
- Presented interpreted insights alongside raw results so users could understand outcomes rather than merely inspect dashboards.
- Implemented with Vue and modern cloud deployment tooling.

Social Publisher | Multi-platform social publishing application

- Built using Codex-driven development workflows to centralise content preparation, previewing, scheduling and publishing.
- Designed platform-aware publishing flows, reusable connectors and practical automation for managing social content from one interface.

Education

Presentation College San Fernando | Secondary education | 2004-2011

COSTAATT, Port of Spain | Undergraduate studies in Radiography (not completed) | 2013-2014

Dominican Friars, Waterford | Theological Studies for Postulants | 2013

Waterford Institute of Technology | Studies in graphic design, web design and database architecture (not completed) | 2013