

Yaqin Hasan

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Full-stack software engineer specialising
in cloud-native SaaS applications.

*Full-stack engineer with production
experience across the UI, API and
infrastructure layers. Proven track record of
shipping impactful features - from AI-
powered workflows to third-party
integrations and billing systems.*

Experience

Cambridge Kinetics (May 2024 - January 2026)

Software Engineer (Full-Stack)

- Designed and deployed LLM-powered workflow automation, reducing manual configuration time from hours to seconds.
- Architected and implemented real-time data synchronization service integrating multiple external systems, processing thousands of daily updates across heterogeneous schemas and OAuth flows.
- Scoped requirements with stakeholders and led end-to-end delivery of production features, including system design, testing strategy, CI/CD integration and Azure deployment.
- Extended Stripe billing to support usage-based pricing and implemented integrations with Xero and QuickBooks, handling OAuth flows, webhooks and resilient error handling.
- Redesigned REST endpoints to support high-volume bulk operations (10k+ records), improving throughput and reducing client round-trips.
- Built and maintained CI/CD pipelines using GitHub Actions and managed Azure production deployments.
- Mentored graduate and junior engineers through code review, pair programming and onboarding.

Education

University of Southampton (2020 - 2023)

BSc Computer Science (Honours)

- Advanced Computer Architecture & Systems
- Real-time Computing & Embedded Systems (RTOS)
- Programming Language Concepts (compiler theory)
- Web Architecture & Hypertext Technologies (REST Theory)

University of Southampton, Malaysia Campus (2019 - 2020)

Engineering Foundation Year

*83% year average (equiv. to A*A*A* A-levels)*

Projects

yaqinhasan.com - Personal Portfolio Website (2024) : Personal portfolio website, showcasing CV, experience and projects. Including interactive terminal and dynamic theming system.

Skills: Vue 3, Vite, TypeScript, SCSS, Web Hosting, VPS, DNS, AWS

CryptIt - Shamir Secret Sharing Encryption App (2025) : Split secret data into multiple shares using Shamir's Secret Sharing algorithm, allowing for secure distribution and reconstruction of the original data.

Skills: Rust, Tauri, Vue, Cryptography, Desktop Application

TrayRunner - MacOS Script Launcher (2025) : Spotlight-esque lightweight macOS menu-bar utility for triggering and scheduling local workflows

Skills: Swift, macOS, Native APIs, Developer Tooling

linkblitzer.com - Multi-Tab Link Launcher (2025) : Web utility and browser extension that generates single URLs which open multiple target pages simultaneously.

Skills: TypeScript, HTML, CSS, Web Development

pwordgen.com & pwordgen (npm package) (2025) : Password generation web utility backed by a reusable published TypeScript npm package

Skills: Vue, Vite, TypeScript, npm, Package Development

prompt-as-endpoint (2025) : TypeScript framework for wrapping local and cloud LLMs in REST API endpoints, published on npm

Skills: TypeScript, Hono, LLM, REST API, Framework

PyDownloader (2025) : Unified API for downloading content from multiple sources

Skills: Python, FastAPI, Backend

ThymPi - Final Year Project (2023) : Researched, designed and implemented a prototype proof-of-concept for using sensor data to augment visual navigation systems for autonomously navigating robots.

Skills: Python, OpenCV, Machine Vision, Robotics, Autonomous Navigation, Sensors, Raspberry Pi

Structured Turtle Querying Language (2022) : Designed an SQL-based querying language and implemented accompanying Haskell interpreter.

Skills: Interpreter, Compiler, Haskell, Lex, Yacc, Parser, Lexer, SQL, RDF

Skills

Languages

TypeScript • JavaScript • C# • Python •
Java • Rust • C • Swift

Backend

ASP.NET Core • HotChocolate GraphQL •
OAuth • Webhooks • REST APIs • MongoDB •
Hono • FastAPI

Development Practices

Unit testing & Test driven development (Vitest,
xUnit) •
End to End testing (Playwright) • Code review •
Git & GitHub workflows/collaboration •
CI/CD pipeline management •
Production deployment & environment
management

Frontend

Vue 3 • Vite • Apollo GraphQL • SCSS •
Bootstrap

Infrastructure & DevOps

Microsoft Azure • Docker • GitHub Actions •
CI/CD • VPS Hosting • AWS