

Yaqin Hasan

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Full-stack software engineer specialising
in cloud SaaS applications.

*Full-stack engineer with end-to-end
ownership experience across the full SDLC
from requirements to deployment at a
production SaaS startup. Shipping impactful
features, from AI-powered workflow
automation to third-party integrations.*

Experience

Cambridge Kinetics (May 2024 - January 2026)

Software Engineer (Full Stack) - Vue, TypeScript, C# .NET, MongoDB, Azure

- Led end-to-end delivery of AI-powered workflow automation features, owning requirements scoping, system architecture and team coordination to streamline customer onboarding and eliminate hours of manual data entry.
- Architected and implemented a C# data synchronisation service integrating multiple external systems, using efficient local comparisons to minimise API calls to process thousands of daily updates across heterogeneous schemas.
- Refactored legacy REST API endpoints to introduce type-safety and bulk operation support, turning 100 requests for 100 operations into a single call.
- Extended existing Stripe billing integration to support add-ons and usage-based pricing, co-designing the commercial model, then architecting and delivering without disrupting existing subscriptions.
- Led delivery of Xero and QuickBooks integrations, implementing OAuth-based account linking, webhook handling and production error handling.
- Owned CI/CD and cloud infrastructure alongside the lead engineer, halving pipeline run times and introducing hybrid local and cloud runners to optimise costs, while managing all Azure production deployments.
- Onboarded and mentored graduate engineers and SDETs from zero experience to full team contribution, covering the full stack, engineering tooling and problem solving.

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)*

Personal Projects

CryptIt - Shamir Secret Sharing Encryption App (2025) : Split secret data into multiple shares using Shamir's Secret Sharing algorithm, splitting and reconstructing secrets with configurable thresholds.

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

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

Skills: Swift, MacOS, Native APIs

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

pwordgen.com & pwordgen (npm package) (2025) : Lightweight password generation web utility backed by a published npm package

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

prompt-as-endpoint (2025) : NPM library simplifying AI-powered REST endpoints by reducing boilerplate with runtime schema validation, prompt templating, and structured output validation.

Skills: TypeScript, AI, LLM, REST API, Zod, npm

PyDownloader (2025) : Python API that allows users to easily download media from various sources on the internet to their NAS.

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

Structured Turtle Querying Language (2022) : Designed an SQL-inspired querying language and implemented accompanying interpreter for querying RDF data.

Skills: Interpreter, Compiler, Haskell, Parser, Lexer

Skills

Languages

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

Backend

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

Testing

Vitest • XUnit • Playwright End-to-End Testing

Frontend

Vue 3 • Vite • Apollo GraphQL • SCSS •
Bootstrap

Infrastructure & DevOps

Microsoft Azure • Docker • GitHub Actions •
CI/CD • Amazon AWS