

Yaqin Hasan

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Cambridge, UK

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

Owned the full SDLC for features from requirements and system design to deployment. Delivered AI-powered workflow automations and third-party service integrations at a production SaaS startup.

Experience

Cambridge Kinetics (May 2024 - January 2026)

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

- Reduced customer onboarding configuration from hours to seconds by leading end-to-end delivery of LLM-powered workflow automation, owning requirements scoping, system architecture and team coordination.
- Aggregated customer data from multiple external systems by architecting and implementing a data synchronisation service, processing thousands of daily updates across heterogeneous schemas with minimised API overhead.
- Improved legacy REST API performance by implementing type-safe bulk operations, reducing 100 round-trips into a single call and supporting operations on 10k+ records.
- Increased product revenue by co-designing the commercial model for usage-based pricing and subscription add-ons, then extending the existing Stripe billing integration end-to-end without disrupting live subscriptions.
- Unified customer financial workflows by delivering Xero and QuickBooks integrations, implementing OAuth account linking, webhook ingestion and error reconciliation.
- Cut MongoDB Atlas costs by ~1000£/month by profiling query patterns, identifying excessive search memory consumption from read-heavy workloads, and migrating to dedicated Atlas Search nodes.
- Halved CI/CD pipeline run times by transitioning to hybrid local and cloud runners, and managed Azure production deployments
- Onboarded and mentored engineers and SDETs from zero experience to full team contribution, covering SDLC principles, full-stack development best practices and developer tooling.

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) : FastAPI service that dispatches download requests to appropriate backends via a single REST endpoint, with organised filesystem output and JSON-based configuration.

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 • Node.js •
SCSS

Infrastructure & DevOps

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