

Yaqin Hasan

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.

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Experience

Cambridge Kinetics (May 2024 - January 2026)

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

- 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)

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

Personal Projects

CryptIt • Secret splitting & reconstruction

Desktop app for securely splitting secrets into multiple shares and reconstructing them using Shamir's Secret Sharing algorithm

Rust • Tauri • Vue • Cryptography • Desktop App Development

TrayRunner • Script launcher

Spotlight-inspired macOS menu bar utility for triggering and scheduling local script-based workflows.

Swift • SwiftUI • macOS Development • Desktop App Development • Shell Scripting

Structured Turtle Querying Language • Haskell interpreter

Designed and implemented an SQL-inspired querying language for RDF data, including complete Haskell interpreter.

Haskell • Interpreter Design • Compiler Theory • Formal Language Theory

prompt-as-endpoint • TypeScript library on npm

Open-source library for building AI-powered REST endpoints by simplifying runtime schema validation, prompt templating, and structured output validation.

TypeScript • AI • LLM • REST API • Zod • npm packaging • Developer Experience

PyDownloader • Download aggregator

Self-hostable download aggregator, matching the functionality of online downloaders, with pluggable architecture supporting multiple backend downloaders.

Python • FastAPI • Backend • Docker

linkblitzer.com • Link bundling and multi-tab launcher

Web utility with accompanying browser extension allowing users to bundle links and open them in bulk.

Vue • Vite • TypeScript • Browser Extension • Web Development

ThymPi • Sensor-augmented navigation research

Researched, designed and implemented a proof-of-concept for using sensor data to augment visual navigation systems for autonomously navigating robots.

Python • OpenCV • Machine Vision • Robotics • Autonomous Navigation • Final year project

Skills

Languages

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

Backend

.NET • MongoDB • PostgreSQL • GraphQL • Hono • FastAPI

Testing

Vitest • XUnit • Playwright • TDD

Frontend

Vue • Vite • Pinia • React • Node

Infrastructure & DevOps

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