

# Yaqin Hasan

Portfolio: [yaqinhasan.com](https://yaqinhasan.com)  
LinkedIn: [linkedin.com/in/yaqinhasan](https://linkedin.com/in/yaqinhasan)  
GitHub: [github.com/yaqin0](https://github.com/yaqin0)  
Email: [yaqin.k.hasan@gmail.com](mailto:yaqin.k.hasan@gmail.com)  
Phone: 074-596-16935  
Cambridge, UK

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

*Full-stack engineer with end-to-end  
ownership experience across the full SDLC  
from requirements and system design to  
deployment. Delivered AI-powered workflow  
automation, third-party integrations and  
cloud infrastructure improvements 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.
- Halved CI/CD pipeline run times by transitioning to hybrid local and cloud runners, and managed all Azure production deployments alongside the lead engineer.
- 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 • SCSS •  
Bootstrap

### Infrastructure & DevOps

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