

Jack Morrison

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PROFILE

Final-year Cyber Security and Digital Forensics student at Bournemouth University (second-year average 72.27%) who builds and runs production software. I wrote and operate a payments platform in live use, the software behind Bournemouth University's student radio station, and an open-source Go web framework. Strongest in Go, TypeScript and Linux infrastructure, with a security-first habit: audits, threat modelling and secure defaults. Looking for a graduate software or security engineering role from summer 2027.

TECHNICAL SKILLS

Languages: Go, TypeScript, JavaScript, C#, SQL, Rust (working knowledge)

Backend and infrastructure: REST APIs, WebSockets, event-driven services (Valkey, transactional outbox), MySQL, SQLite, Redis, Docker, Docker Compose, Linux, Nginx, Caddy, Apache, Let's Encrypt, Cloudflare DNS, AWS S3 and SES, Stripe and Stripe Connect, GitHub Actions CI/CD

Frontend: React, Next.js, Vue 3, Vite, Tailwind CSS

Security: Secure coding, security and GDPR audits, threat modelling, AES-GCM and key derivation, webhook signature verification, sandboxed build execution, OWASP Top 10, incident response (ISO/IEC 27035), digital forensics

Tools and practice: Git, GitHub, OpenAPI, code generation, automated testing (Go test, xUnit), technical writing

EXPERIENCE

Lead Developer, Nerve Radio, Bournemouth University student radio 2026 - Present

- Rebuilt the station's public website in Next.js and TypeScript: a site-wide live player with a stream quality picker, a programme schedule in UK time, and resilient API calls that degrade gracefully when the backend is down.
- Built Nerve Center, the station management system (Go API and Next.js web app on MySQL), replacing the old station manager, with an idempotent import of three years of legacy data.
- Wrote a Go Windows service that records every show and keeps recording if the API is unreachable, replacing an Electron app, plus a now-playing bridge from the studio playout system.
- Worked with the station's technical team to map every legacy tool and agree the replacements before writing code.

Founder and Developer, BluePortal (blueportal.app) Feb 2026 - Present

- Built and run BluePortal, the payments platform I sell my software through: Go services and a Next.js storefront on MySQL, Valkey, AWS S3 and SES, with Stripe payments and Stripe Connect payouts to approved developers. Over 1,000 commits.
- Rebuilt the first version as a smaller, cleaner v2 with an idempotent on-boot migration of the old data, then moved every Go service (165 files across nine modules) from Fiber to my own framework, one service at a time.
- Made payment handling idempotent: webhooks are stored and queued in one transaction and orders are marked paid exactly once.
- Ran a security and GDPR review of the platform and fixed all 19 findings, and isolated customer builds in locked-down containers.

Freelance Software Developer, commission work Feb 2025 - Present

- Write bespoke game-server software for commission clients, handling requests, quotes and support through a Discord bot I built in TypeScript.

IT Work Experience, Nasster May 2023

- One week with the IT team, supporting day-to-day IT work.

PROJECTS

Bosun, Open-source Go web framework (Apache-2.0) github.com/BlueBeard63/Bosun

- Dependency injection with Go generics: types register themselves, a code generator builds the registry, and the framework resolves the dependency graph with cycle detection and ordered graceful shutdown.
- Typed request handlers generate the OpenAPI spec automatically. About 18,500 lines of Go across seven modules at v0.7.0; runs the APIs behind BluePortal and Nerve Center.

Gantry, Go desktop and Android app framework github.com/BlueBeard63/Gantry

- Frameless native windows (WebView2 on Windows, WebKitGTK on Linux), tray and widgets as child processes, and a Go to React bridge over WebSockets.
- One command builds a single 8.5 MB Windows executable or an Android APK, cross-compiled with the NDK and no gomobile or Java toolchain.

Archon, Multi-server Docker hosting tool github.com/BlueBeard63/Archon

- A Go terminal client and a Rust desktop client drive a small Go agent on each server that deploys containers, writes reverse-proxy config and issues Let's Encrypt certificates.
- Deploys run as a staged pipeline with rollback; DNS is checked and set from the client through Cloudflare; stored credentials are encrypted with a key derived by PBKDF2 and AES-GCM.

BAE Systems referral system, one-week team brief, May 2025 github.com/BlueBeard63/CiB-Group-11

- Built a referral and department management system with a cross-course team in one week (Vue 3, Express, MySQL, role-based access); wrote 53 of the 54 commits.

EDUCATION

BSc (Hons) Cyber Security and Digital Forensics, Bournemouth University Sep 2024 - Jun 2027 (expected)

- Second-year (Level 5) weighted average: 72.27%.
- Relevant units: Ethical Hacking, Security Operations, Network and Cyber Management, Software Engineering, Technology Innovation, Digital Forensics, Systems Development, Human Computer Interaction.

A-levels and equivalent, Poole High School 2022 - 2024

- Cambridge Technical Extended Certificate in IT (Distinction), A-level Computer Science (B), A-level Mathematics (D).