

# James Middleton

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Full-stack Software Engineer with 5+ years of experience building scalable web applications. Specialized in React, Node.js, and cloud infrastructure (AWS, Azure). Proven track record of optimizing high-traffic systems and implementing Infrastructure as Code (IaC) with Terraform/OpenTofu. Passionate about DevOps practices, code quality, and delivering intuitive user experiences.

## Skills

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**Languages & Frameworks** TypeScript, React, Vue.js, Node.js

**Cloud & DevOps** Turborepo, GitHub Actions, CI/CD, Docker, Terraform, Kubernetes, AWS, Azure

**Databases** PostgreSQL, MongoDB, Microsoft SQL Server (MSSQL), Redis

**Testing & Tools** Jest/Vitest, Playwright, Cypress, Percy, Git

## Experience

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**Software Engineer**, Gelt – Long Eaton, Nottingham

Oct 2025 – Nov 2025

Tech: Vue.js, Tailwind, Playwright, Percy, Node.js, MongoDB

- Migrated the application's icon set to a new design system package, using Percy for visual regression testing to ensure consistency
- Introduced tailwind-merge to eliminate the !important class anti-pattern used for style overrides
- Executed a MongoDB database migration to support domain-specific feature changes

**Software Engineer**, Low6 – Remote

Dec 2024 – Sep 2025

Tech: React, React Native, Node.js, Fastify, MSSQL, PostgreSQL, Redis, GitHub Actions, OpenTofu, Azure

- Scaled BBC Champions League Squares to handle £100k/second in server requests using Redis caching and optimised stored procedures
- Contributed to ITV's The Spin Off, a React Native daily quiz app that reached #3 in Entertainment on the UK App Store, building the Redis-backed leaderboard microservice and working across quiz logic and architecture
- Built auth integration and infrastructure for Fantasy Hockey World, repackaging existing game platforms with new theming and features
- Extended and maintained the NHL Quarter Century Vote fan engagement platform with new features and bug fixes
- Developed an interactive command-line interface (CLI) tool to migrate frontends from Netlify to Azure Static Websites, allowing colleagues to search and select projects, auto-create GitHub repos, and migrate variables and secrets
- Created a reusable OpenTofu utility module mapping desired regions to available Azure resource locations, adopted across projects
- Initiated Infrastructure as Code (IaC) driven Azure Key Vault permissions for App Services via OpenTofu; educated the team on best practices and introduced format-on-save via pre-commit with CI validation and linting
- Simplified frontend builds by implicitly loading environment variables from GitHub deployment environments

**Software Engineer**, IMG ARENA – Remote

Nov 2021 – Jul 2024

Tech: React, GraphQL, Cypress, RxJS, Node.js, GitHub Actions, Kubernetes, Terraform, AWS

- Co-architected the department's Turborepo + pnpm monorepo, consolidating 4 frontends and a backend-for-frontend from separate repos, establishing shared libraries, CI/CD (Continuous Integration/Deployment), linting, versioning, and releases
- Extended the Golf product to support DP World Tour and LPGA, adapting backend data handling for tournament nuances and building detailed SVG stat visualisations including radial dials
- Revamped theming to enable \$1M+ Golf partnership with FanDuel, retaining compatibility with existing themes

- Deployed Content Security Policy (CSP) across 4 frontends with DataDog reporting to mitigate Cross-Site Scripting (XSS) risks

**Software Engineer (Contractor)**, Scrolller – Remote

Jun 2021 – Sep 2021

Tech: React, MobX, GraphQL

- Increased the rate of new premium subscriptions by 30% by redesigning UI elements to create clearer calls to action

**Junior Software Developer**, Community Brands UK (now VenturEd Solutions) – Remote

Dec 2020 – Jun 2021

Tech: React, PrimeReact, C#.NET, Pascal, MSSQL, Azure Cosmos DB

- Built a health reporting dashboard in React with a C#.NET backend to monitor Xporter daemons deployed across 18,000+ school Management Information System (MIS) environments
- Enhanced SQL data-mapping scripts used by the Xporter engine to extract and transform school data from on-premise MIS systems

**Solutions Engineer (Contractor)**, ProVQ – Hybrid (Shrewsbury)

Jan 2019 – Apr 2019

Tech: Vue.js, Feathers.js, Feathers-Vuex, MongoDB, Mongoose, Node.js, Cloudflare, Vultr VPS

- Designed and delivered a full-stack apprentice screening platform as sole developer for an automotive training provider partnered with Toyota, Porsche and John Deere, replacing a paper-based process
- Increased processed applications by 500% and successful applicants by 150%

## Education

**Loughborough University**, Computer Science BSc (Hons)

Oct 2016 – Jul 2020

- Earned a Diploma in Professional Studies (DPS) by successfully delivering the ProVQ screening platform
- Mentored peers for courseworks and coding in Python, Java, JavaScript and PHP

## Projects

**ProVQ Apprentice Screening Platform**

Jan 2019 – Apr 2019

Tech: Vue.js, Feathers.js, Feathers-Vuex, MongoDB, Mongoose, Node.js, Cloudflare, Vultr VPS

- Designed and delivered a full-stack web application as sole developer for ProVQ, an automotive apprenticeship training provider, to digitise their paper-based applicant screening process
- Implemented user registration with email confirmation, authentication, and password reset flows
- Built a test engine supporting multiple choice, text input and numeric answer types, with configurable pass criteria and a single retake per test
- Created a staff portal with applicant search, test management, applicant state reset, and CSV data export
- Integrated with the PICS Learner Management System (LMS) to automatically enrol successful applicants
- Configured and deployed to a Vultr Virtual Private Server (VPS) with Cloudflare for DNS and DDoS protection

**Sykes Cottages Owner Calendar**

github:midzdotdev/sykes-owner-calendar

Tech: Cheerio, Node.js, iCal, Vercel

- Built a serverless Node.js application that scrapes booking data from Sykes Cottages and serves it as an iCal feed for property owners