

Matthew Turner

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Personal Summary

As an engineering leader committed to delivering business outcomes, I empower teams to produce reliable and cost-effective software systems. I cultivate collaboration and open communication, which drive team autonomy. By engaging with stakeholders, I develop strategies that prioritise competing concerns.

Key Skills

- Agile development
- Stakeholder management
- Requirements capture
- Team leadership
- Release planning
- Product ownership
- Architecture
- Infrastructure
- Observability
- Technical writing
- Documentation
- Troubleshooting
- Security
- Clean code
- Code review
- Testing
- DevOps
- UX Design
- C#
- .NET
- React
- JS/TS
- SQL
- RabbitMQ

Professional Experience

[Ministry of Defence](#): Securing the United Kingdom

Senior Technical Architect (2024-present)

I work across four multidisciplinary software engineering teams, interfacing with product managers and technical leads to define milestones and drive the delivery of a cohesive product vision, while upholding security and compliance standards. With cloud platforms increasingly a target for application infrastructure hosting, I have planned migration strategies for existing products and opportunities to adopt serverless techniques for enhanced cost optimisations. I have worked with teams in other departments to evaluate products with similar functionalities with a view to migrating workloads and reducing support burdens.

[RACE, UKAEA \(via Rullion\)](#): A robotics facility at the forefront of nuclear research

Technical Lead - Software Engineer (2019-2024)

I led a team that grew to five engineers, owning the end-to-end development of a web application that supports [robotic maintenance](#) of the JET nuclear fusion reactor. The Operations Management System (OMS) is used to plan complex procedures in advance, and guide users through live repairs while sending commands through integrations with other control systems. The highly configurable system was recognised by the [RAICo programme](#) for its wider industrial applications.

Key contributions:

- Built stakeholder trust by leading demos, workshops and review meetings
- Tailored work for individuals by planning, refining and assigning tasks
- Enhanced team performance through mentoring and pair programming
- Introduced new technologies such as React/TypeScript for a modern UI and Power BI for reporting
- Advocated for process improvements based on experience and feedback
- Interviewed and onboarded team members, including entirely remotely during COVID-19
- Evaluated COTS and open source software solutions for replacing in-house software systems
- Designed system architecture ensuring long-term stability

- Produced a modern web API from legacy applications, using the latest version of .NET
- Implemented new features with code that is easy to read, reuse and maintain
- Established unit, integration, and end-to-end testing strategies and a code review process
- Commissioned CI (GitLab) and CD (Octopus) pipelines for automated testing and deployment
- Resolved urgent application errors by analysing logs
- Presented technical topics on architecture, user stories, and other best practices
- Planned cross-project integration demos, such as [sending commands to a robotics control system](#)
- Authored funding proposals and supported [research initiatives](#)

[Chez Matthew](#): A website generator for small businesses (2019)

I designed and built a system to quickly generate static websites, including my own [personal website](#). The linked video displays the main capabilities of that system and contains discussion points around decisions made. I learned a lot about how to balance business and technology priorities.

[UpSlide](#): Premium productivity Add-Ins for Microsoft Office

Software Engineer (2018)

I proposed and implemented a normalised stats schema for user activity, future proofing against increased tracking. After I set up a reporting dashboard for those stats in Power BI, I led work on an OfficeJS plugin developing a React prototype for exporting snapshots of Power BI visuals across Office applications. An additional learning curve that I had to negotiate was conducting my work in a second language, with code and documentation in English but all team discussions in French.

[Travel Republic](#): Online travel agent handling millions of page hits per day

Software Developer (2013-2016), Senior Software Developer (2016-2017)

I spent much of my first 18 months in Bangalore guiding a new offshore team by coaching them on our product, processes and style, resulting in an integrated team with ownership of aspects of the system. Alongside this I worked with business analysts in Barcelona to provide them a means of configuring geographical destination hierarchies according to local markets. As a result I became the owner of the microservices for reviews, destination hierarchy and landing page content, which required reactivity to monitoring alerts and attention to caching and scaling measures.

I was promoted to senior in recognition of my growing responsibilities, fielding more code reviews and influencing architectural discussions while also implementing large scale features. I led work on the transition to a faster and simpler URL structure (maintaining SEO scores), flexible content for our most popular destination pages, and a project to allow other brands within the group to use our booking system.

[Ensoft](#): Software contractor for Cisco Systems, specialising in routing technology

Software Engineer (2011-2013)

I developed and tested software for routers using C, with an emphasis on writing maintainable, efficient and well-documented code. The focus on run-time efficiency built knowledge of data structures and algorithms.

Education

[St. John's College, University of Cambridge](#) (2008-2011)

BA (Hons) in Mathematics (2:1), scoring highly in the computational projects coursework using MatLab.