

# SUNDHAR KARUNANIDI

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## PROFESSIONAL SUMMARY

Mid/Senior Full Stack .NET Engineer with 6+ years designing and delivering scalable applications across regulated and enterprise environments, spanning event-driven microservices, cloud-native architecture, and modern frontend frameworks (Vue, React). Directs AI coding agents (Claude Code, GitHub Copilot) as part of daily workflow — delegating scaffolding, testing and multi-file changes while reviewing and owning every change for correctness — and has used agentic tooling to improve team developer experience. Open to new opportunities following a team restructuring at current employer; seeking a backend-leaning full-stack .NET role in fintech or another regulated sector.

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## TECHNICAL SKILLS

**Languages & Frameworks:** C#, .NET Core, ASP.NET, Entity Framework, Vue 2/3, React, TypeScript, JavaScript, NestJS, Python

**Databases:** SQL Server, MongoDB

**Cloud & DevOps:** Azure (Azure AD, Service Bus, Functions), AWS (Lambda, API Gateway, S3), CI/CD, Git

**Architecture:** Microservices, Event-Driven Architecture (RabbitMQ, Hangfire, Service Bus), REST APIs

**Practices:** TDD/BDD (NUnit, xUnit, Moq, Jest), Agile/Scrum

**AI-Assisted Engineering:** Claude Code, GitHub Copilot — daily use for scaffolding, testing, refactoring, and ADR drafting

**CMS & Tools:** Umbraco, Episerver, DataDog, JIRA, Confluence

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## PROFESSIONAL EXPERIENCE

### Software Engineer — InfoTrack, London *Nov 2025 – Present*

*Full-stack engineer in a 5-person Agile Scrum team (Tech Lead, 2 FS .NET engineers, QA, PM) on a commercial conveyancing product, reporting to the Tech Lead.*

- Extended a RabbitMQ-based email pipeline to handle a new SDLT-submission event, wiring consumers to MediatR handlers dispatching Hangfire background jobs — decoupling slow email-provider calls from queue processing, with idempotency safeguards against duplicate sends on redelivery.
- Built a dynamic SDLT form in Vue with live edit/preview, delegating scaffolding, field-map logic and test generation to Claude Code and Copilot while reviewing and validating every generated change against team conventions before merge.
- Committed shared Claude Code/Copilot instruction files (CLAUDE.md, path-scoped rule files) and an ADR-linking convention to the team repo, giving all engineers a consistent baseline for AI-assisted development; widely adopted across the team, coinciding with an uptick in sprint velocity.
- Diagnosed and fixed a metadata-mapping bug in a third-party CRM integration causing incorrect linkage of case data; traced the issue to source and verified the fix in production.
- Wired lease schedule regeneration via a Hangfire job with authenticated impersonation, tied to the SDLT-submission event pipeline above.
- Challenge: joined a team with no established agile, release, or documentation process, and was handed direct ownership of production issues from day one.

### Software Engineer — BJSS / CGI, London *Mar 2023 – Oct 2025*

*Backend-leaning engineer in an 8-person Scrum team (Tech Lead, PO, 5 backend, 1 frontend, QA) for a large-scale gambling platform, across a US market expansion and an internal tooling project.*

- Contributed to a US expansion platform live across 25 states by rollout end, where each state required its own regulatory, payment and data-handling rules; the team decoupled tightly regulated functionality (verification, deposits, withdrawals) into state-specific microservices rather than one global codebase.
- Worked within the team's migration of core backend services from .NET to Go and Erlang for ultra-low-latency live wagering — editing stored procedures, porting logic, and managing per-state configuration; used Copilot to help automate repetitive changes across large stored procedures.
- Designed and built a React booking system for internal site/room reservations across 40+ UK offices (~1,200 staff): real-time conflict prevention via optimistic UI updates reconciled against server state, Azure AD role-based access, and an event-driven notification pipeline (Service Bus + Azure Functions) decoupled from the booking API. Cut average booking time from ~3 minutes to under 15 seconds; reduced double-booking incidents by ~90%.
- Built a CRUD module and TypeORM entity/migration for a serverless Next.js/NestJS project on AWS Lambda; implemented a NestJS Lambda authorizer validating JWTs and added consistent DTO validation and error-handling middleware.
- Practised TDD/BDD (NUnit, Moq, Jest, Supertest) across services.

### **Software Engineer — Vertical Aerospace, Bristol (Contract) Oct 2022 – Mar 2023**

*Full-stack engineer in a 2-person senior engineering team at an early-stage aerospace startup.*

- Designed and built a vertiport booking API and Blazor frontend, preventing double-booking of time slots in real time.
- Built a C++ datagram sender and Python packet-capture tool, using pytest to verify packet integrity and header correctness for real-time aircraft data streaming.
- Challenge: working in a 2-engineer team meant owning both API design and low-level networking/data-integrity code with minimal handoff.

### **Full Stack Engineer — Felinsoft, Bristol Jun 2021 – Oct 2022**

*Engineer in a Scrum team (2 engineers, 1 frontend, 1 BA, team lead).*

- Led migration of clients from a Pro8 CRM integration to Umbraco, alongside a version migration carried out via reverse proxies and rewrite rules.
- Delivered a full component library rebrand to new APM branding.
- Built a recursive node-traversal function to generate XML sitemaps from the Umbraco content tree.
- Integrated external CRM data into CMS-driven pages; mentored junior developers.

### **Software Engineer — Zone Digital, Bristol Nov 2018 – Jun 2021**

- Maintained enterprise-level microservices using React and .NET.
- Improved Core Web Vitals through lazy loading implementation.
- Delivered features via CI/CD pipelines in Agile teams.
- Extended Umbraco and Episerver CMS platforms.
- Used DataDog for log management and APM monitoring.

## **EDUCATION & CERTIFICATIONS**

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Aerospace Engineering — University of Bristol | Green Software for Practitioners (LFC131), The Linux Foundation, 2025 | AWS Cloud Practitioner & Developer | MTA: HTML5 Application Development Fundamentals | BCS Software Development Methodologies