SIMON HARRIS

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PROFESSIONAL SUMMARY

Senior Software Engineer with 13+ years of experience architecting and delivering enterprise-level cloud solutions and digital transformation initiatives across maritime insurance, healthcare, and scientific computing sectors. Demonstrated expertise in cloud transformation, system modernisation, and complex microservice architectures, leveraging AI-enhanced development workflows that accelerate delivery and improve quality. Proven track record in architecting solutions that drive measurable business value. Skilled at stakeholder management and fostering innovation across organisational boundaries through strategic adoption of emerging technologies.

CORE COMPETENCIES

- **Software Engineering**: Full-stack development, API design, test-driven development.
- **Enterprise Solution Architecture**: Cloud transformation strategies, system modernisation, microservices design.
- **Technical Leadership**: Stakeholder management, cross-functional team leadership, architectural governance.
- **Cloud & DevOps**: Azure Cloud Services, CI/CD implementation, infrastructure automation
- **Innovation**: AI-enhanced development workflows, emerging technology adoption, digital transformation.

TECHNICAL EXPERTISE

Modern Development Stack

- C#, .NET 8, Angular 16+, TypeScript, JavaScript
- xUnit, NUnit
- Azure Cloud Services (Functions, Service Bus, DevOps, Identity)
- Microservices Architecture, CQRS, Entity Framework Core
- SharePoint Online, Graph API, OAuth2.0

Infrastructure & DevOps

- Azure Cloud
- Docker, Terraform
- CI/CD, Infrastructure as Code (IaC)
- SQL Server, MongoDB Atlas
- Advanced Git workflows (GitLab Flow, GitHub Flow)

Development Tools & Practices

- Visual Studio 2022, VS Code, JetBrains Rider, SSMS, DataGrip
- Postman/Insomnia, Git
- AI-Assisted Development (GitHub Copilot, ChatGPT, Claude)
- Test-Driven Development, Agile Methodologies, SOLID Principles
- Working knowledge of enterprise architecture principles (TOGAF)
- Comprehensive code review processes with automated quality gates

Prior Experience & Additional Technologies

- AWS
- Python, C, C++, Java
- React, Flutter, Dart
- Oracle Database, MongoDB Compass
- Windows Forms, WPF, WCF, REST APIs, SOAP APIs
- Selenium
- Jira, Confluence
- Continuous Learning (Udemy, Pluralsight, Brilliant, daily.dev)

PROFESSIONAL EXPERIENCE

Senior Software Engineer, NorthStandard (contract), February 2022 – *Present*

Led enterprise-scale digital transformation initiatives for a leading maritime insurance company, managing systems handling 500+ concurrent users and thousands of daily document transactions.

Key Achievements:

Strategic Architecture & Innovation

- Architected and implemented cloud-native solutions, transitioning critical systems from on-premises to Azure Cloud Services.
- Established loosely coupled service-oriented architecture enabling iterative delivery of system upgrades.
- Implemented modern authentication using SSO and OAuth2.0.
- Led technical decision-making processes, aligning solutions with business objectives.

Major Projects

- **Edna DMS**: Architected and developed a modern document management solution processing thousands of daily documents, integrating SharePoint Online with custom web applications while maintaining strict security compliance.
- **Mazu Modernisation**: Led strategic migration from .NET 4.5 to .NET 8, implementing cloud-optimised architecture and ensuring business continuity through iterative delivery.
- **CargoClaims Platform**: Delivered sophisticated Angular-based claims management system that augmented and enhanced the Mazu claims data using complex financial calculations and multi-currency support.
- **System Consolidation**: Spearheaded technical integration of merged business systems, establishing a blueprint for future consolidation projects. The claims team implemented innovative solutions for cross-system data access and reporting.

Technical Leadership

- Established robust CI/CD pipelines in Azure DevOps with comprehensive quality gates requiring multiple peer reviews and automated testing.
- Implemented GitLab Flow branching strategy to support parallel workstreams and multi-environment deployments.
- Mentored development team in cloud-native development practices and architectural patterns.
- Collaborated with the enterprise architect to ensure alignment with strategic and technical vision.

Technologies: C#, .NET 8, Angular 16+, TypeScript, Azure Cloud Services (Functions, Service Bus, DevOps, Identity), SharePoint Online, Graph API, SQL Server, Entity Framework Core, xUnit, Docker, Terraform, OAuth2.0

API Developer (contract), Deloitte*, October 2021 – February 2022*

Developed complex insurance system APIs for Lloyds of London, enabling real-time document digitisation and contract distribution for high-risk insurance agreements.

Key Achievements:

- Architected and implemented microservice solutions using containerized Docker instances and MongoDB Atlas.
- Established and maintained 80%+ test coverage while adhering to stringent coding standards.
- Drove technical decision-making and architectural design choices.
- Implemented Azure Service Bus Integration for service communication and APIM for secure third-party endpoint exposure.
- Collaborated with business stakeholders to design and document technical requirements aligned with architectural vision.

Technical Implementation:

- Followed strict development practices with defined build processes and peer reviews.
- Implemented comprehensive API documentation in Jira and Confluence.

- Built Services using microservice architecture with containerized deployments.
- Maintained code quality through automated analysis (Sonar Cloud)

Technologies: C#, ASP.NET Core, MongoDB, NUnit, Docker, Azure (Service Bus, APIM), Sonar Cloud

Software Development Manager / Solution Architect, Ashfield *Healthcare, March 2015 – September 2021*

Led global technical initiatives and managed a cross-functional team of 8 (including developers, QA, BA, and UI designer) delivering healthcare technology solutions across Europe, Asia, and North America.

Key Achievements:

- Architected transition from local to global architecture for ATS and HCM systems, reducing head count and reducing time from job post to recruitment by approximately 30%.
- Delivered £3M+ order management system for a leading flu vaccine supplier.
- Led omnichannel solution development integrating multiple customer data sources.
- Implemented AI-powered chat bot for technical support automation.

Technologies: C#, ASP.NET Core, JS, TS, HTML, CSS, Angular, AWS, Azure, Azure DevOps, Microservices

Software Developer, *3tc Software, October 2012 – February 2015*

Developed emergency services software including Computer Aided Dispatch (CAD) systems and statistical analysis tools.

Notable Achievement: Designed and implemented high-performance routing engine (based on the A* pathfinding algorithm) for emergency response, utilising a custom priority queue with bit shift algorithm for optimal performance.

Technologies: C#, WPF, SOAP APIs, SQL Server, Oracle Database, Java, VB.NET, Windows Forms, xUnit, NUnit, Rabbit MQ, TFS

Software Developer, *CERN, June 2010 – July 2011*

Contributed to the CMS Fireworks project, developing visualisation software crucial for analysing high-energy particle collision data. This system played a supporting role in the historic 2012 discovery of the Higgs Boson by enabling physicists to visually inspect particle collisions through detailed 3D models of the CMS detector.

Technologies: C++, C, Python, Bash, CERN Linux 5, SVN, ROOT, OpenGL

EDUCATION & PROFESSIONAL DEVELOPMENT

BSc (Hons) International Computer Games Programming, Staffordshire University, Sept 2008 – May 2012

Cisco Networking Academy: CCNA 1, CCNA 2, CCNA 3, *Ashby School*

OCR Level 3 Certificate for IT Professionals (units):

· Routing Protocols and Concepts

· Hardware/Equipment and Systems Installation

· Customer Support Provision

· LAN Switching

A Levels: Computing, Mathematics, General Studies

AS Levels: Computing, Mathematics, D&T Systems and Control Technology, General Studies

REFERENCES

References available upon request.