

# Jacob Phillips

## Software Engineer

📞 07444203226    ✉️ jacobrphillipsdev@gmail.com    🔗 <https://www.linkedin.com/in/jacobrphillipsdev/>    📍 Milton Keynes, UK

### SUMMARY

Proficient software engineer with experience in designing, developing, and implementing software applications. Utilising C# and .NET to write scalable, secure code with a knack for problem-solving.

### PROFESSIONAL EXPERIENCE

#### Cyber Security Specialist

**Fortis Cyber Security**    📅 04/2024 - Present    📍 Milton Keynes, UK

Led in the design and development of a compliance management application

- Spearheaded the design and development of a compliance management application, producing over 20 technical documents, including user stories, database schemas, and UI/UX wireframes, ensuring a 100% alignment with client requirements.
- Partnered with the development team to implement 15+ features, improving compliance tracking efficiency by 40% for end-users.
- Utilised vulnerability assessment tools (e.g., Nessus, Tenable) to identify and remediate over 300 vulnerabilities across multiple client systems, reducing critical risks by 50% within 3 months.

#### Software Engineer

**TIDE Services**    📅 10/2023 - 04/2024    📍 Huntingdon, UK

Responsible for designing, developing, and maintaining software applications

- Designed and developed scalable web applications using ASP.NET MVC, adhering to OOP and SOLID principles to improve maintainability and performance.
- Migrated legacy Exchange Server system to Twilio SendGrid for email functionality, writing 50+ unit and integration tests with NUnit to ensure seamless email delivery and system reliability.
- Acted as the focal point for production releases to AWS EC2 to ensure seamless deployments and 99.9% uptime.
- Improved development documentation and conducted code reviews in Azure DevOps, boosting team code quality and reducing technical debt.
- Migrated Python Lambda functions to C#/.NET, ensuring compatibility with organisational standards and extending application security support.
- Refactored SQL database stored procedures, enhancing query performance by 50% and reducing system latency.
- Integrated Redis caching into server-side code using AWS ElastiCache, achieving a 15% reduction in API response time and lowering RDS operational costs.

### EDUCATION

#### Bachelor's in Computer Science

**Oregon State University**

📅 09/2023 - 09/2025    📍 Corvallis, United States (ECampus)

### HOBBY

#### Programming Content Creator

<https://www.youtube.com/@JPtheProgrammer>

📅 08/2023 - Present

Developed and shared educational content on YouTube, creating tutorials and practical examples to help learners with core programming concepts, data structures, algorithms, and cloud-based application deployment on Azure.

### PROJECTS

#### Instructor Hub

🔗 <https://github.com/gschool-blue-ocean/instructor-hub-20?tab=readme-ov-file>

Collaborated in a team of developers to design and develop a full-stack web application for managing instructor and student data using React, Express, Node.js, and PostgreSQL, enhancing educational workflows through dynamic scheduling and performance tracking.

#### Technology Blog

🔗 <https://www.jacobrphillips.com/>

Developed a fully functional blog using C# ASP.NET Core MVC with .NET Identity for user authentication, featuring secure account management, post creation, and comment functionality.

#### System Design Capstone



🔗 <https://github.com/jacobrphillips/SDC>

Designed and implemented a scalable backend system using Node.js and PostgreSQL, performing a performance analysis of distributed monolith, single-server monolith, and SSM with Redis to optimize API performance and database efficiency for high-traffic e-commerce operations.

### SKILLS

C#	.NET	ASP.NET MVC	Python
SQL	Object-Oriented Programming (OOP)		
Node	Express		
RESTful API Development		AWS	Azure
Git	Visual Studio		
UI/UX Wireframes and Mockups			
Database ERD and Schema		NUnit	
Unit Testing	React	JavaScript	
TypeScript	HTML	CSS	

### IMPORTANT LINKS

-  **Github**  
<https://github.com/jacobrphillips>
-  **Portfolio Website**  
<https://jacobrphillips.dev/>