

# JACOB PHILLIPS

## Software Engineer

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• Milton Keynes, England, United Kingdom

## Education

### Oregon State University

Corvallis, OR (Ecampus)

Bachelor's of Science in Computer Science | GPA: **3.85** / 4.0

2023 - 2025

- **Programming Coursework:** Discrete Mathematics, Computer Arch., Assembly Language, Advanced Python

## Professional Experience

### TIDE Services

Huntingdon, England, UK

Software Engineer

10/2023 - Present

Contributes to developing and improving innovative software projects at TIDE Services, enhancing organizational efficiency.

- Successfully maintained and optimized over 10 customer websites, ensuring consistent uptime, performance, and functionality, while providing timely updates, and support to meet client needs and satisfaction.
- Established a robust Development Environment leveraging AWS EC2 instances, enhancing the software development lifecycle by streamlining testing procedures and optimizing application maintenance processes.
- Conducted root cause analysis on over 8 critical issues, swiftly identifying bugs and implementing solutions for production deployment within a 24-hour timeframe, ensuring minimal disruption to operations and enhancing overall system reliability.
- Translated 3 AWS Lambda functions from Python to C#/.NET 6 due to deprecated security support, seamlessly transitioning and deploying them utilizing Azure DevOps for AWS infrastructure, ensuring continued functionality and adherence to security standards.
- Implemented migration from the legacy email notification service to Twilio's SendGrid for two products, significantly accelerating email delivery to customers and achieving cost savings for the business.
- Served as the primary focal point for orchestrating production release deployments for my team utilizing AWS, ensuring seamless and efficient delivery of software updates to meet project deadlines and operational requirements.
- Enhanced code documentation by systematically documenting previously undocumented processes and procedures, fostering greater clarity, efficiency, and knowledge sharing within the development team.

## Projects

### C#/.NET & Tech Blog

<https://www.jacobrphillips.com/>

C#/ASP.NET Core MVC-powered blog application that serves as the official website for my YouTube channel, dedicated to the exploration of coding and programming. Utilizes PostgreSQL as the database.

- Implemented a feature-rich personal website using C#/ASP.NET Core MVC, showcasing an interactive portfolio and in-depth coding tutorials through an optimized Model-View-Controller architecture.
- Leveraged ASP.NET Core MVC's routing capabilities to design a user-friendly navigation system, ensuring seamless exploration of blog posts, coding resources, and portfolio sections while enhancing overall website usability.
- Integrated ASP.NET Core Identity for user authentication, empowering visitors to engage with the website's content by leaving comments, thus fostering a collaborative community around the shared passion for coding.
- Employed ASP.NET Core's built-in data validation and entity framework to manage and display blog posts and portfolio items, ensuring data consistency, security, and enabling efficient content updates that resonate with fellow coding enthusiasts.

### Instructor Hub

<https://github.com/gschool-blue-ocean/instructor-hub-20>

Customer Relationship Manager built with React, Node.js with Express, and PostgreSQL.

- Developed a responsive frontend using React, incorporating various libraries for state management, client-side routing, and additional styling.
- Designed and implemented a RESTful API using Express, enabling seamless data retrieval and manipulation with full CRUD (Create, Read, Update, Delete) functionality from a PostgreSQL database.
- Implemented unit tests using Jest for backend functionality, ensuring code quality and reliability.
- Conducted end-to-end tests using Playwright, validating the application's functionality and user experience.

## Skills

React • JavaScript • Python • HTML • CSS • C#/.NET • ASP.NET MVC • .NET Framework • SQL • PostgreSQL • Visual Studio • Amazon Web Services • DataGrip • Azure DevOps • Git • Jira