JACOB PHILLIPS

Software Developer

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🔗 https://www.linkedin.com/in/jacobphillips-dev/   📍 Bedford, England, UK

SUMMARY

U.S. Air Force veteran and Computer Science student with exceptional problem-solving skills, aspiring to embark on a career as an Entry-Level Software Engineer. Recognized for strategic thinking, decision-making, and technical expertise, with a passion for technology and innovation.

PROJECTS

Blog - jacobrphillips.com

🔗 https://github.com/jacobrphillips/YoutubeBlog

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, https://www.jacobrphillips.com/, 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.

System Design Capstone - Server Side Optimisation

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

Project aimed to improve and optimize backend scalability and performance of a full-stack application.

- Implemented a scaled backend for a full stack application replicating Epic Games' store product page, utilizing technologies such as Node, Express, Postgres Database, k6, Faker.js, Docker, Redis, and Digital Ocean.
- Refactored the inherited backend infrastructure to conduct load tests and utilize Digital Ocean, migrating tables and seeded data to a Postgres image within a Docker container for consistent deployment and scalability.
- Leveraged Redis caching to improve caching mechanisms and overall application performance, utilizing a separate Digital Ocean droplet for the Redis server.
- Containerized Express servers using Docker Compose and deployed them to Digital Ocean droplets, simplifying the infrastructure and reducing overhead for enhanced scalability.

Adidas Product Page

🔗 https://github.com/FrontEndForceTeam/AdidasFEC

Replica of an Adidas Product Page built with React, Node.js with Express, and PostgreSQL.

- Responsive frontend using React to meticulously replicate the layout and functionality of the Adidas product page, implementing various libraries for precise state management, seamless client-side routing, and meticulous styling.
- Designed a robust and scalable RESTful API using Express, seamlessly integrating SQL database retrieval for efficient data management and retrieval.

SKILLS

Full Stack Web Development

Load Testing & Performance Testing

Database Management   Unit Testing

Git   Algorithms & Data Structures

STRENGTHS

💬 **Oral and Written Communication**

✔️ **Reliable and Consistent**

📒 **Committed to Lifelong Learning**

🧍 **Team Building**

EDUCATION

BSc in Computer Science
Oregon State University
📅 2023 - Ongoing

BFA in New Media & Animation
Southeastern Louisiana University
📅 08/2014 - 12/2018

TRAINING / COURSES

Operation Level-Up: Software Engineering Immersive

18-week Full Stack Software Engineering course for military veterans provided by Galvanize Inc.

AWARDS

💎 **2021 Lieutenant General Leo Marquez Award (352nd Air Force Special Operations Wing)**

Air Force-level prestigious award presented to maintainers who have demonstrated superior service, performance, job knowledge, and results in aircraft maintenance.