Jack [CENSORED]

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Profile

Recent Computer Science graduate with a first-class honours degree from the University of Gloucestershire. Proficient in multiple programming languages, cloud services, CI/CD pipelines with GitHub Actions, and developer tools, with hands-on experience in building scalable applications. Passionate about software development and keen to contribute to innovative projects in a collaborative environment. Seeking a role as a Junior Software Developer to leverage my skills in full-stack development, cloud computing, and distributed systems.

Technologies

Languages: TypeScript, Go Language, Java, SQL, Python, C#, PHP and JavaScript
Developer Tools: Git, GitHub Actions, Visual Studio Code, JetBrains IDEs
Frameworks: JakartaEE, JavaFX, Express.js, Next.js, Node.js
Libraries: React, Redux, Socket.IO, TailwindCSS
Databases: SQL (MariaDB, Oracle Database, SQL Server, PostgreSQL and SQLite), MongoDB
Technologies and Cloud Services: Kubernetes, Docker, Digital Ocean, AWS, OVH

Education

BSc	**University of Gloucestershire**, Computer Science	Sept. 2021 to Jun 2024
	• **Grade:** First-class honours	
A-Levels	**Patchway Community School**	Sept. 2018 to Jun. 2020
	• Financial Studies Diploma from LIBF	
	• Photography	
	• Computer Science	
GCSEs	**Patchway Community School**	Sept. 2013 to Jun. 2018
	• 8 GCSEs at grades 5 - 4 (Including English and Maths)	

Work Experience

Freelance Programmer - Commission Based Work   2024 - Present

- Developed custom web applications for clients, focusing on user needs and business objectives, utilising TypeScript and React with TailwindCSS for the frontend.
- Implemented backend solutions with Node.js and Express.js, incorporating Socket.IO for real-time communication and MariaDB for database management, containerized using Docker for seamless deployments.
- Established CI/CD pipelines using GitHub Actions for automated deployments, ensuring efficient project delivery and client satisfaction.

Projects

Distributed Load Testing Application - *(Dissertation Project)* ⌂ ⌂   2024

- Developed a scalable load-testing tool based on the master-slave architecture, allowing users to create complex test scenarios with a user-friendly virtual programming interface.
- Implemented the backend using Go Language and RabbitMQ, ensuring high performance and efficient task distribution; the front-end was built using TypeScript, React.JS and TailwindCSS.
- Integrated CI/CD pipeline using Kubernetes, Docker, and GitHub Actions, resulting in a streamlined deployment process that enhances future updates and maintenance.

Employee Payroll System ⊙   2023

- Developed a comprehensive payroll management system as part of my "Algorithms and Data Structures" university assignment, programmed in Java, using JavaFX for the user interface and SQLite for data management.
- Implemented essential algorithms, including Merge and Quick sort, as well as searching techniques such as Binary and Linear Search. Utilised a tree data structure for hierarchical employee categorization and a FIFO queue for managing notifications, enhancing the organization and responsiveness of the application.
- Designed the application to support key features such as employee management (adding, editing, viewing, and sorting employees), organizational hierarchy (categories and roles), and automated payslip generation, resulting in a streamlined payroll processing solution for potential users.

Portfolio Website 🔗 ⊙ ⊙   2024

- Developed a full-stack portfolio website to showcase projects and to enhance personal branding and online presence.
- Leveraged modern technologies, including TypeScript, React, Redux, and TailwindCSS on the front-end, with Go and Gorm (ORM) for the back-end, ensuring a cohesive and functional design.

Kickable 🔗   2023

- Developed a full-stack streaming dashboard for live streamers, allowing them to visualise and manage their streaming environment in real-time.
- Implemented the backend using TypeScript, Node.js and Express.js with Socket.IO used for real-time communication; the frontend utilised Next.js, TailwindCSS and Redux for state management. Integrated Prisma ORM for database interactions with MariaDB, along with a CI/CD pipeline via GitHub Actions for automated deployments.
- Successfully attracted over 1,000 users during its launch while processing more than $250,000 in donations through integrated AI Text-To-Speech (TTS) and alert capabilities, enhancing viewer engagement and driving an increase in donation uptake.

References

Available upon request.