Maurice Murphy

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SUMMARY

Dedicated Senior Software Engineer with a diverse background in application development across multiple tech stacks. Adept at leading teams and creating innovative software solutions tailored to organisational objectives. Skilled in strategic thinking and effective communication, with a focus on delivering software that enhances core competencies and drives success.

EDUCATION

National College of Ireland, Postgraduate Diploma in Computer Science,
Artificial Intelligence/Machine Learning
Dublin | 01.21 - 01.22

Code Institute, Diploma in Full Stack Software Engineering
Dublin | 09.20 - 08.21

University of Westminster, BSc (Honours) in Architectural Technology (2:1)
London | 09.13 - 07.16

CERTIFICATION

- Google Cybersecurity Certificate

TECHNICAL SKILLS

Design and UI/UX Tools:
- **Graphic Design:** Adobe Photoshop, Illustrator
- **UI Design & Prototyping:** Figma, Balsamiq

Programming Languages and Frameworks:
- **Frontend Development:** JavaScript ES6, React (with Redux), TypeScript
- **Backend Development:** JavaScript (Node & Express), Golang (Gin), Python (Flask)
- **DevOps:** AWS, GitHub Actions, Terraform

Database Management:
- **SQL Database:** MySQL
- **NoSQL Database:** MongoDB
- **Cloud Databases:** AWS DynamoDB, RDS

DevOps and Cloud Services:
- **Cloud Computing:** AWS with Terraform (EC2, Lambda, API Gateway, S3, CloudFront, RDS, Route 53, Cognito)
- **Containerization:** Docker

Testing and Quality Assurance:
- **Unit Testing:** Jest
- **Integration Testing:** Testing Library, Selenium

WORK EXPERIENCE

NBC Universal
Software Engineer, London
12.2021 – Present
- **Enhanced User Engagement**: Led front-end development using ReactJS and TypeScript, focusing on user experience improvements that increased engagement through refined UI/UX design principles.
- **Optimized Codebase**: Implemented advanced ReactJS features (hooks, context API) to enhance state management and component reusability, which improved maintainability and scalability.
- **Streamlined UI Development**: Collaborated with UX/UI designers, transforming complex designs into functional interfaces, ensuring cross-device consistency, accessibility, and interactivity.
- **Improved Application Performance**: Applied code optimization techniques (code-splitting, lazy loading) to significantly boost application speed and efficiency.
- **Strengthened Testing Framework**: Developed a robust suite of automated tests (Jest, React Testing Library) to ensure front-end reliability and stability.
- **Microservices Development**: Contributed to back-end services using Golang, focusing on efficient, scalable microservices to enhance application functionality.
- **Cloud Infrastructure Management**: Managed AWS cloud infrastructure, optimizing the use of Lambda, API Gateway, and RDS for scalable back-end operations.
- **AWS Integration**: Played a key role in integrating AWS services with front-end applications, ensuring secure, efficient data communication and storage solutions.
- **Leadership and Mentoring**: Upheld software development best practices, mentored junior developers, and participated in code reviews, strengthening team expertise.
- **DevOps Contributions**: Enhanced DevOps pipelines using AWS for continuous integration and deployment, accelerating feature delivery and reliability.

Freelance Software Engineer (JavaScript Developer)
Independent Contractor, London
11.2020 - 10.2021
- **Full-Stack Web Development Expertise**: Specialized in crafting responsive front-end interfaces using React and efficient back-end solutions with Node.js, leading the full lifecycle of robust web application development from concept to deployment.
- **Dynamic User-Centric Interfaces**: Engineered multiple web applications, emphasizing modern UI/UX principles in React to boost user engagement and accessibility.
- **API Development and Integration**: Developed scalable, maintainable RESTful APIs using Node.js, enhancing application functionality and performance.
- **Database Management**: Leveraged MongoDB's flexibility and scalability to manage complex data structures and optimize data retrieval.

- **Client Collaboration**: Worked closely with clients to transform visions into functional applications, ensuring continuous feedback incorporation and project updates.
- **Coding Standards and Reviews**: Advocated for and adhered to best coding practices, participated in code reviews to ensure high-quality standards and performance enhancements.
- **Professional Development**: Kept up-to-date with the latest JavaScript technologies and trends, continually refining skills to deliver innovative solutions.

Foster & Partners
Architectural BIM Technologist, London
06.2018 - 10.2020
- Spearheaded the automation of building plan creation using Python, significantly enhancing design efficiency and accuracy.
- Developed and optimised large-scale data processing systems, applying Python for precise project estimations and sustainable design analysis.
- Engineered automated building energy simulation tools with Python, aiding in eco-friendly architectural decision-making.
- Collaborated with design teams to integrate Python-driven automation in BIM processes, leading to substantial improvements in project workflow and accuracy.
- Mentored junior staff in Python automation techniques for architectural design, promoting a culture of innovation and continuous learning.