

Maurice Murphy

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Portfolio: github.com/mauricetjmurphy

SUMMARY

Software engineer with experience developing applications in the multiple tech stacks. Skilled leader who has the proven ability to motivate, educate, and manage a team of professionals. Confident communicator, strategic thinker, and innovative creator with the ability to develop software that is customized to meet a company's organizational needs, highlight their core competencies, and further their 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

TECHNICAL SKILLS

Design Tools: Balsamiq, Figma, Adobe [Photoshop, Illustrator, XD]

Languages/Frameworks: Python, Flask, Django, JavaScript ES6, React/Redux, TypeScript

Databases: Postgres, MongoDB, DynamoDB, RDS

Devops: AWS, Docker,

TDD & BDD: Jest, Enzyme, Testing Library, Selenium

CAREER HISTORY

NBC Universal

Software Engineer

London | 12.21 – Current

- Utilized Jira to plan and track the development process.
- Developed extensible frontend user interfaces with ReactJS and Typescript.
- Implemented a RESTful API using Golang and AWS Lambda resulting in a streamlined process for data management and retrieval.
- Developed backend micro services with React, Golang and Docker.
- Containerised independent services with Docker before development to staging and production environments.
- Developed both Unit and integration tests to achieve an agreed level of coverage for each project.

- Experience working with AWS services including: Cloudformation, ECS, Route53, CloudWatch, CloudFront, EC2 Fargate, IAM, S3, lambda.
- Contributed to the setup and configuration of Continuous Deployment pipelines (Codebuild and Jenkins).

Freelance

Software Engineer

London | 01.21 – 12.21

- Worked as a full-stack engineer developing web applications utilizing technologies such as Node.js, React, and MongoDB.
- Design and deployment of Shopify ecommerce websites.
- Custom Shopify liquid theme design and modification.
- React frontend theme development that integrated with Shopify backend.

Foster & Partners

Architectural BIM Technologist

London | 06.18 - 10.20

- Developed scripts to automate the process of creating building plans, schedules, and budgets, reducing the time spent on manual drafting by 50%.
- Implemented an automated system to process and analyse large data sets of building materials and costs, leading to more accurate and efficient project estimates.
- Created scripts to automate the tracking and scheduling of construction projects, resulting in a 20% increase in on-time completion rates.
- Developed a system for automated building energy simulations using Python and energy analysis software, enabling more accurate and sustainable design choices.
- Used python to create custom script to streamline the process of BIM data management, integration, and data processing, thus cutting down development time significantly.
- Assisted in identifying new software technologies, alternative systems and/or design software to enhance data centred design capabilities.

PERSONAL PROJECTS

StockZip

Stock price forecasting Software with Python, Django, React and MongoDB

- Developed a machine learning model for carrying out sentiment analysis of Twitter tweets of specific stocks.
- Designed the application as a set of microservices
- Used Docker to containerize the services
- Utilized external APIs to retrieve financial data
- Created a REST API that served serialised data to the React frontend

Fabrique

Ecommerce site written in ReactJS frontend, Python/Django REST API backend and PostgreSQL

- Created a REST API that served serialised data to the React frontend
- Developed an e-commerce full stack web application that implement JSON web token authentication.
- Implement a fully functional Stripe payment method

- Currently working on implementing the recommender system to provide customers recommendations based on their purchase history
- All project changes were tracked using Git version control.
- The application was hosted on Heroku