Sean McKenna

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WORK EXPERIENCE

Pfida   **February 2023 – Present**

Graduate Software Engineer (Full Time)   Manchester/London

- Experience with AWS Lambda, API Gateway, DynamoDB and EventBridge.

- Typescript with Node.JS, Terraform for AWS for back-end development.

- Helped develop a Global Identity Platform for new customers and staff.

- Contributed to a new Auth Migration flow that implements Event Driven Development.

- Experience with Jest to mock functions and test the logic of lambdas.

- Contributed to a micro-service that connected to the Intercom API for Customer Relationship Management.

- Used Pluralsight's A Cloud Guru service to learn AWS.

The Christie NHS Foundation Trust   **June 2017 – June 2017**

IT Assistant (Work Experience)   Manchester

- Imaged new software and operating systems.

- Created new ports for the network.

- Managed new devices for staff.

- Shadow placement with a Python developer at the Applications Department.

Blessed Thomas Holford Catholic College   **June 2017 – June 2017**

IT Assistant (Work Experience)   Manchester

- Managed the school's database for new upcoming sixth form students.

- Recommended operating systems for school computers.

- Helped resolve technical issues for teacher's devices.

EDUCATION

Liverpool Hope University   **October 2021 - October 2022**

Degree (MSc), Advanced Computer Science – Distinction (82%)   Liverpool

- Dissertation: Using Reinforcement Learning and Proximal Policy Optimisation to play Sonic the Hedgehog

- Internet of Things: Developed a Machine Learning algorithm with an Arduino BLE Sense to generate and predict weather data

- Virtual Reality: Developed a phobia exposure therapy simulator in Unity VR.

- Big Data Analytics: Created code in Apache Pig to analyse big data about video games sold across the globe.

Liverpool John Moores University   **October 2018 - June 2021**

Degree (BSc), Computer Science – 1ˢᵗ Class (70%)   Liverpool

- Dissertation: Exploring how Recommendation Systems can aid individuals with Culinary Planning.

- Introduction to Programming: Using Java to create a hotel booking system.

- Introduction to Internet and Web Development: PHP to create a video games review website.

- Graphics and Data Visualisation: Tableau and Processing to visualise data about the population of the UK.

SKILLS, PROJECTS, AND INTERESTS

Skills

- Programming Languages: TypeScript (Node.JS), Python, Java, MATLAB, Apache Pig.

- AWS Technologies: API Gateway, Lambda, DynamoDB, S3, EventBridge, CodeCommit, CloudWatch.

- Observability: OpenTelemetry Observability and HoneyComb to observe spans of lambda functions.

- Python Libraries: TensorFlow, Pandas, Scikit-Learn, OpenAI Gym, NEAT, NumPy.

- Databases: DynamoDB, MySQL.

- APIs: Internal Pfida APIs, Intercom API.

- Version Control: Git and CodeCommit

Interests

- Fitness and Exercise: Prioritise fitness and exercise for physical and mental well-being, constantly striving for personal improvement.