CARLO MCGINLEY

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SKILLS

Languages	Java, Python, C, JavaScript, SQL, XML
Frameworks	React, Spring, Spring Cloud
Cloud Services	AWS (Amplify, Cognito, AppSync, DynamoDB, Route 53, EC2)
Development Tools	Git, Jira, Confluence, Jenkins

EDUCATION

Technological University of The Shannon: Midlands West, Athlone   *Sept 2022 - May 2023*
MSc. Software Design with Cyber Security   Second Class Honours

National University of Ireland, Galway   *Sept 2016 - May 2021*
BSc. Computer Science & Information Technology   Second Class Honours

WORK EXPERIENCE

OpenJaw Technologies, Galway   *Aug 2021 - Present*
Software Engineer

· Developed and maintained backend services and RESTful APIs as part of a booking offer and order management system utilised by a global chain of hotels and resorts.
· Actively participated in daily stand-up, weekly grooming, and regular regression meetings in order to plan ahead and analyse the work being completed.
· Enforced stringent application security protocols and ensured PCI compliance to protect sensitive customer data and maintain regulatory standards.

OpenJaw Technologies, Galway   *Jan 2020 - Apr 2020*
Intern Software Developer

· Developed front-end web pages using React, and back-end RESTful APIs for a customer service dashboard for use within the aviation industry.
· Created unit tests for Java using the JUnit framework, automated front-end tests using Selenium Web Driver, and implemented rigorous regression testing procedures for both a front-end dashboard and an AI chat client that implements IBM Watson.
· Participated in weekly planning meetings, and bi-weekly retrospective meetings to plan the future progression of the product, and solve problems as they appeared.

PROJECTS

Utilising a Fine-Tuned GPT-3 model as a novel approach to detect phishing emails
Team-based research project undertaken as part of my postgraduate degree. This project involved training a GPT-3 algorithm using a sample set of spam and non-spam emails in order to allow it to accurately identify phishing emails. My personal contribution consisted of researching traditional email classification solutions, and the limitations that they pose.

Network Security Assignments
Completed multiple network security-focused assignments which involved emulating different types of attacks within a virtual machine running Kali Linux. The attacks were executed on target hosts running within a local Docker container, and covered the following areas:
• Packet Sniffing and Spoofing
• TCP/IP Attacks
• DNS Attacks
• Firewall Exploration
• VPN Tunnelling
• Cross-Site Scripting (XSS)
• SQL Injection
• Click Jacking.

Call Rating & Billing System   *JavaScript, React, AWS*
A Call rating engine developed as my Final Year Project while pursuing my undergraduate degree. Hosted using AWS and built using React, this application provides an interface for a VoIP company to rate calls and bill customers in a similar manner to traditional telecommunications companies. It also provides a dashboard for customers to manage their call data and expenses, and implements Paypal as a payment module.

Machine Learning Classification Algorithms   *Python*
Developed and implemented K-Nearest Neighbour and Support Vector Machine classification algorithms using the scikit-learn package for Python. These algorithms determine whether a specific sample of beer is an Ale, Stout or Lager, by analysing its properties, and comparing it to the sample data used to train each algorithm.