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DEAN LOGAN

SOFTWARE ENGINEER

UNIVERSITY GRADES

Software Engineering with Digital Tech Partnership, BEng at Queen's University Belfast, 1st Class Honours (2020-2024)

- Stage 1 Grades:
  - Web Technologies – 83%
  - Programming – 88%
  - Software Design Principles – 89%
  - Databases – 87%
  - Fundamentals of Mathematics – 96%
  - Architecture & Networks – 84%
- Stage 2 Grades:
  - Professional & Transferable Skills – 83%
  - Service Oriented Programming – 83%
  - Software Engineering & Systems Development – 83%
  - Data Structures and Algorithms – 83%
  - Cyber Security Fundamentals – 83%
- Stage 3 Grades:
  - Secure Software Development – 81%
  - Malware Analysis – 78%
  - Software Development Practice – 66%
  - Concurrent Programming – 84%.
  - Software Engineering Enterprise Project – 71%.
  - Team-Based Software Innovation – 75%.
- Spent one year as a demonstrator mentoring 1st year students.
- Participated in various Hackathons including receiving Best in the education category for the "Hack the COVID 2020" hackathon and when I came first in the "Allstate CTF" Hackathon.
- 1st place in the Concurrent Programming Competition.

ABOUT ME

I am a dedicated Software Engineer at BT Group, currently working on APIs for customer sales journeys. I have experience in the financial services sector and local government from my apprenticeship at PwC, where I specialized in Cloud Digital Transformation (CDT) and Robotic Process Automation (RPA). During my apprenticeship, I achieved a 1st Class Honours in Software Engineering at Queen's University Belfast. My technical skills encompass a wide range of technologies, including Java, Python, AWS, and Azure. I'm keen to explore concurrency-focused languages like Go and expand my cloud expertise.

Outside of work, I enjoy learning about business and financial markets through books like *Investing in US Financial History* and *Billion Dollar Whale*. I'm also creating a personal finance tracker using banks' third-party APIs through the Open Banking specification. Additionally, I enjoy expanding my DevOps and self-hosting knowledge through YouTube channels like Dreams of Autonomy, and I am currently building a Redis clone in Go to deepen my understanding of developer tools. I actively participate in the developer community by attending social events, hackathons, and conferences like NIDC. I have a passion for solving puzzles, reading, and cycling. For more information, you can visit my CV website. here.

EXPERIENCES

My studies in Team-Based Innovation at university have honed my teamwork skills and my ability to collaborate within professional settings. I've engaged in diverse team projects, such as developing an escape room game, a Java-based monopoly clone, and currently, a chatbot/dashboard for university students.

I'm known for my strong creative problem-solving skills, demonstrated by my first-place achievement in the Allstate CTF hackathon, where I excelled in decrypting ciphers and solving complex challenges under time constraints which also demonstrated my ability to work in high paced environments. I've applied these abilities in various projects, including building an escape room website and working with Tomcat servers during my coursework at university.

While at university I completed the secure software development module which furthered my understanding of cyber security and report writing. In this module I had to write about different types of vulnerabilities and how these can be exploited and prevented/mitigated. This also furthered my report writing skills as we had to complete a Threat Modelling report, which helped me develop the ability to think critically and analyse code.

I thrive in high-paced environments, as evidenced by my active participation in hackathons, where quick decision-making is crucial to delivering solutions within tight time frames. Beyond my formal education, I'm passionate about learning new technologies and enhancing my personal development. I dedicate my spare time to earning certifications and expanding my capacity to rapidly grasp and adapt to new technologies.

Through these certifications, I have developed a strong knowledge (and interest) around cloud technologies and I'm eager to learn more about how these can be used to drive innovation and enhance services. My certification journey also led me to learning more about AI, specifically machine learning and how it can be used to provide a data-driven approach to problem solving.

HIGH SCHOOL

Belfast High School (2013-2020)

- A-Level Results:
  - A* in Electronics and Computer Science.
  - A in Mathematics.
- GCSE Results:
  - A* in the following: Computer Science, Electronics, Geography and Double Award Science.
  - A in Mathematics.
  - B in English Literature.
  - C in English Language and Religious Studies.
  - Level 2 in Understanding Business, Enterprise, Languages and Tourism.
- Senior Prefect and mentor.
- Member of the Robotics, Badminton, and cross-country clubs.

CERTIFICATIONS

Microsoft

- Azure Fundamentals (AZ-900)
- Azure Data Fundamentals (DP-900)
- Power Platform Fundamentals (PL-900)
- Security, Compliance, and Identity Fundamentals (SC-900)
- Azure AI Fundamentals (AI-900)

AWS

- Certified Cloud Practitioner (CLF-C02)

Freecodecamp

- Machine Learning with Python
- Data Analysis with Python

GitHub

- GitHub Foundations

PwC

- Digital Acumen Badge

Alteryx

- Alteryx Designer Core Certified

Celonis

- Certified to Build Action Flows
- Certified to Write PQL Queries
- Build Knowledge Models & Views
- Certified to Build Analyses
- Certified to Get Data Into the EMS
- Identify & Drive Opportunities
- Solution Creation Expert
- EMS Technical Expert

CHECK OUT MY WEBSITE FOR MORE INFORMATION ON EVERYTHING IN THIS CV.

JOB EXPERIENCES

Software Engineer, BT Group, Sept 2024 – Present

As a member of the Customer Service Capabilities squad, I am responsible for developing backend APIs that enhance consumer sales journeys for millions of users on EE and BT. These APIs, built using Java and Spring Boot, provide a robust and scalable foundation for customer-facing digital services.

In my role, I leverage my experience in AWS to host these APIs, ensuring they are highly available and scalable, through a mixture of Lambda functions and Dockerised containers usi. I utilize Dynatrace for real-time monitoring and performance analysis in production environments, enabling me to quickly identify and resolve performance issues. My proficiency with SonarQube ensures that we maintain high standards of code quality. Additionally, I have experience with Jenkins to monitor the CI/CD pipeline for our unit and integration tests which use Instancio and Wiremock for mocking data, showcasing my commitment to maintaining high-quality standards.

Technology Consultant, PwC UK, Aug 2020 – Aug 2024

I contributed in establishing an AI and RPA Center of Excellence (CoE) at North Lanarkshire Council (NLC), focusing on governance processes to improve efficiency and mitigate risk. Working closely with stakeholders, I defined the CoE's objectives, governance structure, and operational model, creating a strategic roadmap with milestones and success criteria. I conducted workshops to promote best practices and collaborated with the council. Moreover, I organised boot camps on Power Automate, Power Pages, Copilot Studio, and UiPath to upskill employees as citizen developers, fostering strong relationships across the council.

Following the CoE's establishment, my team developed four chatbot Proof of Concepts (POCs) for various civic services. My primary responsibility was integrating SAML authentication with Copilot chatbots and connecting APIs to the council's "Submission Framework,". I also provided training and advisory services to the council on chatbot maintenance and process automation.

I played a pivotal role in developing the Cloud Cost Assurance (CCA) tool, with a focus on cost analysis for AWS compute services. This involved utilising AWS CloudWatch APIs, Gradle, and Java, while adhering to a Test-Driven Development (TDD) approach. The project adopted a Functional Programming paradigm to ensure efficient, parallelisable code, enhancing my logical and analytical skills as I optimised functions and evaluated alternative solutions. This experience also familiarised me with Gradle and WSL, contrasting with my university project where I used Python to develop a Dockerised Django application.

Additionally, I shared knowledge by mentoring Year 1 and Year 2 Technology Degree Apprentices (TDA) by leading workshops on Azure DevOps, Git, TDD, and JUnit testing. These activities further developed my communication and teamwork skills, building on previous mentoring roles during university and A-Levels.

I contributed to the 'Data Lab Importer' project, demonstrating strong problem-solving and analytical skills. The team used Google Apps Script to import data from 'Data Lab' into Google Sheets. This involved executing API calls for data retrieval and using Google's Card Service for UI, enabling users to select datasets, apply filters, and import data accurately. I adhered to company policies and procedures, ensuring the delivery of functional code that met user needs effectively.

During my time as an RPA developer and process mining analyst, I used UiPath and Celonis to streamline financial tasks, focusing on the client side. I worked closely with process owners, analysed event logs to create dashboards and visual process flows, and identified workflow inefficiencies. This role highlighted my problem-solving and analytical skills, as well as my ability to communicate technical concepts to both technical and non-technical clients. Most of the team members were based in South Africa, demonstrating my experience working in a global environment across international locations. This client-centric analysis allowed me to discern client needs effectively and prioritise requirements in the decision-making process.

I developed a Tech Delivery Workbench (TDW) for a client, integrating tools like Jira, Azure DevOps, Slack, GitHub, Jenkins, and Microsoft Project. This project demonstrated my understanding of the software development lifecycle and resulted in a PowerBI dashboard for effective project management.