



07796363452

Belfast

 [linkedin.com/in/dean-john-logan](https://www.linkedin.com/in/dean-john-logan)



 deanlogan42@gmail.com

 <https://cv-dean-logan.netlify.app/>

 <https://github.com/DeanLogan>

DEAN LOGAN

APPRENTICE TECHNOLOGY CONSULTANT

UNIVERSITY GRADES



Software Engineering with Digital Tech Partnership, BEng at Queen's University Belfast (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 – In Progress.
 - Software Engineering Enterprise Project – In Progress.
 - Team-Based Software Innovation – In Progress.
- Spent one year as a demonstrator mentoring 1st year student's during their practical's.
- 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.

SUMMARY

I am a dedicated Software Engineering student at Queen's University Belfast. Through my time at University, I also act as an Apprentice Technology Consultant at PwC, gaining practical experience through my three summer placements (approx. 15 weeks each) and two extensive six-month placements.

My technical skills encompass a wide range of technologies, including Java, Python, AWS, Azure, and more. I'm keen to explore concurrency-focused languages like Go and Rust, alongside expanding my cloud expertise towards earning the Microsoft Developer Associate (AZ-204) certification. Similarly, I like to complete projects outside of my work like my CV website and various ML projects for the Python with Machine Learning course. I enjoy getting involved with the wider developer community by attending social events at work, hackathons, or events like NIDC. I also have a passion for solving puzzles, reading, playing video games, and cycling in my spare time. For more detailed information about myself 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 various certifications, I have developed a strong knowledge (and interest) surrounding cloud technologies and I'm eager to learn more about how these technologies can be used to drive innovation and enhance various 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

PwC

- Digital Acumen Badge

Alteryx

- Alteryx Designer Core Certified

Celonis

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

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WEBSITE FOR MORE
INFORMATION ON
EVERYTHING IN THIS
CV.



JOB EXPERIENCE

Technology Consultant, PwC UK, Aug 2020 - Present

I played a key role in creating the Cloud Cost Assurance (CCA) tool, specifically focusing on cost analysis for AWS compute services. This involved using AWS CloudWatch APIs, Gradle, Java, and following a Test-Driven Development (TDD) approach. Notably, the project embraced a Functional Programming paradigm, emphasizing efficient, parallelizable code. This experience honed my logical and reasoning skills as I analysed and optimized functions comparing strengths and weaknesses of the alternative solutions. I was also exposed to Gradle, along with using WSL, which is different to my university experience where, for my final year project, I am using Python to build a Django application that is running in a Docker container. This shows my exposure to various programming languages and implementation environments.

Additionally, I demonstrated an open attitude to knowledge sharing by mentoring Year 1 and Year 2 Technology Degree Apprentices (TDA) and leading workshops on Azure DevOps, Git, Test-Driven Development, and JUnit testing. These workshops built on my communication and team working skills developed during my time as a mentor during my A-Levels and while I was a Demonstrator at Queen's University.

I contributed to the 'Data Lab Importer' project, where I applied good problem-solving and analytical skills. This project allowed users to import data from 'Data Lab' into Google Sheets seamlessly. Working in a small, agile-oriented team, we used Google Apps Script to execute API calls for data retrieval and Google's Card Service for the user interface. Users could choose data sets, apply filters, and import data with precision. This not only required a keen understanding of user requirements but also the ability to carry out responsibilities in accordance with company policies, procedures, and processes, demonstrating my ability to deliver working code.

During my time as an RPA developer and process mining analysis, I harnessed UiPath and Celonis to streamline financial tasks, with a particular focus on the client side of things. I collaborated closely with process owners, analysed event logs to construct dashboards and visual process flows, and pinpointed inefficiencies within the project's workflows, identifying any strengths and weaknesses that can be overcome by approaching the problem in a different way. This client-centric analysis not only demonstrated my strong problem-solving and analytical skills but also showcased my robust communication skills. These skills enabled me to adeptly discern client needs and effectively explain technical concepts, whether to my more technical colleagues or to the less technical, (and sometimes completely) non-technical clients, allowing me to better prioritize requirements in my decision-making process.

I contributed to the development of a Tech Delivery Workbench (TDW) for a client, showcasing my understanding of the software development lifecycle and the use of different tools at various stages as I was building a tool that helped monitor this process. The TDW integrated tools such as Jira, Azure DevOps, Slack, GitHub, Jenkins, Microsoft Project, and more. This resulted in a comprehensive PowerBI dashboard that enabled project managers to monitor development progress effectively.



Software Engineer (Work Experience Programme), PSNI, Aug 2019 – Aug 2019

During my engagement with the Sentinus IT Bursary Scheme, I effectively demonstrated my proficiency in strong written and verbal communication skills. In addition to technical accomplishments, such as developing a Python-based facial recognition prototype, configuring a secure cloud storage system using Box, and creating a user-friendly GUI for a Box-hosted database, I also conducted research on handwriting recognition. These projects showcased my technical abilities in Python programming, cloud technology, and UI/UX design, but it was my collaboration with PSNI colleagues and Box representatives that underscored my excellent teamwork and communication capabilities. I excelled in conveying complex technical concepts in a clear and concise manner to a diverse audience, emphasizing my capacity to work in multidisciplinary teams and effectively articulate my ideas both in writing and through verbal communication.