# Jake McDuff

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Current Cloud Computing Masters student at Newcastle University, with cyber security experience, searching for a graduate role in coding.

## Education

**Sep 2024 – Present   Newcastle University MSc Cloud Computing**

**Relevant modules**: Advanced Object-Oriented Programming, Data Mining and Big Data Analytics, Cloud Computing Infrastructure, Machine Learning and AI Integration

- Developed complex programming concepts, including polymorphism, inheritance, and encapsulation, primarily in Java.

- Led a team project of 5 to develop a robust software application using Python. Collaborated with the team to solve problems and keep to deadlines.

- Gained proficiency in data mining techniques, Hadoop, and Spark for processing and analysing large datasets. Presented findings from a data analysis project to an audience of 200 peers and staff, answering questions effectively.

-  Developed expertise in designing, deploying, and managing cloud infrastructure using platforms such as AWS, Azure, and Google Cloud. Collaborated with team members on a cloud architecture project

**Sep 2021 - June 2024 Newcastle University BSc Physics (2.1)**

- Developed strong analytical skills through coursework in advanced mathematics and statistical methods, enabling precise data interpretation and problem-solving.

- Conducted experiments involving data collection, analysis, and interpretation

- Utilised software and tools for data processing and presenting findings

**Sep 2014- Jun 2021 North Newcastle High School, Newcastle Upon Tyne**

**A Levels 2021:** Maths A, Physics B, Computer Science B

**GCSES 2019**: 10 GCSES 9-6

## Related Work Experience

**Jun – Aug 2024                Big Deal Supermarket Cyber Security Internship**

- Specialised in security functions, including security operations, vulnerability management, security testing, monitoring, and capability.

- Gained hands-on experience in incident response, addressing and mitigating security threats.

- Participated in evaluating, securing, and responding to incidents, using advanced technologies to increase visibility and protection of systems, services, and data.
- Engaged in intern group challenges and hackathons to explore real-world solutions.

**Sep 2023 – Present          Coding Club Volunteer, Newcastle Upon Tyne**

- Facilitated and led weekly coding sessions to create a collaborative community, enhancing participants' understanding of programming concepts and fostering innovation and technical skills.
- Developed and implemented inclusive lesson plans tailored to various skill levels, promoting creativity and problem-solving abilities in young learners, and helping them unlock their potential in the digital world.
- Mentored and supported students in debugging code, problem-solving, and project development, sharing personal enthusiasm for coding and inspiring them to explore new possibilities with confidence.
- Organised and led coding challenges and long-term projects, encouraging continuous learning and development, allowing participants to deepen their understanding, refine their skills.

## Additional experience

**Apr 2019-Jan 2025     Server, Happy Days Food, Newcastle Upon Tyne**
- Greeted customers, took orders, and processed payments to a high standard
- Prepared food items according to customer specifications and quality standards
- Delivered food and beverages to customers and ensured their satisfaction
- Cleaned and maintained the restaurant, including dining area, kitchen, and equipment.
- Followed food safety standards and procedures

## Achievements
- Hacktivate 48hour Cyber Security Hackathon 2024
- NCL+ Award 2024

## Additional Skills
- IT Skills including Python, JavaScript, Hadoop, Spark, AWS, Azure, Google Cloud
- Full UK driving license