

# JACK CLEARY

<https://jackcleary.ie> | +353 (87) 276 8950 | [clearyj5@tcd.ie](mailto:clearyj5@tcd.ie)

## PROFESSIONAL SUMMARY

Dedicated **Engineer** with a strong academic background in Computer Science & Statistics, complemented by hands-on experience in software development and data analysis. Skilled in **cloud platforms, automation, CI/CD**, and full-stack **web/mobile applications**, working within **Agile frameworks** with cross-functional teams, delivering secure, scalable solutions. Eager to deepen expertise and gain hands-on experience in cutting-edge technologies.

## WORK EXPERIENCE

**Accenture – DevOps & Automation Engineer** Sept 2023 – Present

- Selected as the Accenture Ireland nominee for '**National Graduate of the Year**' award for my work in 2024/2025.
- Spearheading the implementation of **CI/CD pipelines** to support the transformation of the client's legacy monolithic website into a fully scalable, **microservice-based architecture** using **Next.js**, reducing production deployment time from several hours/days to under **20 minutes** while improving stability
- Leveraging cloud platforms and automation tools such as **AWS, Jenkins, ArgoCD, and GitHub Actions** to streamline continuous integration, **testing**, and deployment workflows, ensuring efficient and rapid deployments
- Architecting and managing **Kubernetes clusters** for containerized microservices, utilizing advanced **AWS services** such as **EKS, EC2, and CloudFront** to optimize the scalability, performance, and security of the applications
- Collaborating closely with cross-functional teams (developers, testers, and product owners) to design and release cutting-edge microservices whilst working within the **Agile** framework, boosting **online sales** significantly for the client
- Driving the adoption of **Infrastructure as Code (IaC)** through **AWS CloudFormation**, ensuring that infrastructure is version-controlled, reusable, and improving consistency across multiple environments
- Enhanced cloud security posture by integrating **AWS IAM roles, Secrets Manager, and Parameter Store** to handle secure, role-based access management and store sensitive data securely, reducing security incidents to **zero**
- Certified **AWS Cloud Practitioner** as of March 2024, with in-depth knowledge of AWS services, security best practices, and cloud architecture principles

**Good Travel Software – Data Analyst** May 2023 – Jun 2023

- Developed proficiency in **Python** to analyse and manipulate **data for business insights**
- Conducted data **extraction, transformation, and analysis** to identify patterns, trends, and anomalies in **large datasets**
- Collaborated with the team to design and implement data-driven solutions to improve business processes and decision-making

**WeHelpWidlife (Dublin-based Wildlife Rescue Charity) – Software Developer** Oct 2022 – Apr 2023

- Built a **Full-Stack Mobile Application** and **Web-based Dashboard** for a charity as part of my university Final Year Project
- Developed my knowledge of **JavaScript, React and React Native**, having had no prior experience
- Utilized **Google Firebase** for backend development, enabling **real-time database synchronization**

**Self - Employed – Tutor & Music Teacher** Sep 2016 – Present

- Tutoring several students, both Junior & Leaving Cert in a range of subjects - Maths, Applied Maths, Physics, Accounting
- Tutoring several young students in both piano and guitar, following RIAM musical grades.

## EDUCATION

**University College Dublin, UCD** April 2024 – July 2024

*Professional Certificate of Data Analytics: Machine Learning*

- Mastered **machine learning** techniques with **Python** and scikit-learn, covering data pre-processing, model selection, and hyperparameter tuning, **deep learning** and **neural networks**
- Gained expertise in advanced data visualization tools like Bokeh, matplotlib, and seaborn for effective communication of insights

**Trinity College Dublin** Sep 2019 – May 2023

*B.A. Management Science & Information System Studies (MSISS)*

- Graduated with First Class Honours **(1.1)**
- Relevant modules: **Programming** (Python, SQL, Java, React Native, Flutter), Statistical Analysis, **Data Analytics, Applied Probability, Finance, Derivatives, Accounting, Economics, Engineering Mathematics, Decision Analysis, Management Science**
- Awarded **Naughton Foundation Scholarship** for excellence in the STEM field in Leaving Certificate

## AWARDS & ACHIEVEMENTS

### Academics

- Completed Harvard Business School 'Credential of Readiness' Course – Business Analytics, Economics, Financial Accounting

### Music

- Grade 8 (Highest Grade) Piano with Honours (Royal Irish Academy of Music)
- Self-taught Guitar to teaching level

### Sport

- Gaelic Games:** Current Kildare County Senior Football Club Champion (2021, 2022, 2023 & 2024)
- Represented Kildare County in both Gaelic Football and Hurling (Ireland's two National Sports) at a number of different age grades
- Reached National Senior Schools Football 'Hogan Cup' Final in 2019 in Croke Park (Ireland's Sporting HQ)
- Golf:** Accomplished golfer, current playing Handicap – 9