

Aiden Byrne

Junior Database Administrator



Cork, Ireland · aiden.byrne@gmail.com · +44 7418 573 296 · [linkedin.com/in/aidenbyrne-dba](https://www.linkedin.com/in/aidenbyrne-dba)

Computer Science graduate from University College Cork with a specialism in database design, administration, and performance tuning. Completed a **6 month placement** at a software company managing PostgreSQL and MySQL databases serving **2 million+ records**. Wrote SQL optimisation scripts that improved query performance by **35%** on key reports. Oracle Database SQL Certified Associate with a strong foundation in data modelling and backup/recovery procedures.

Experience

Jan 2025 – Jun 2025

Database Administration Intern, Teamwork.com, Cork

Joined the data engineering team for a 6 month placement supporting production databases for a project management SaaS platform.

- Monitored and maintained **8 PostgreSQL databases** containing over **2 million records** combined
- Optimised **15 slow-running queries** identified through performance monitoring, improving average execution time by **35%**
- Automated daily backup verification scripts in Bash, reducing manual checks from **45 minutes to 5 minutes per day**
- Assisted with a database migration from MySQL to PostgreSQL for a legacy module, mapping **35 tables** and validating data integrity

Sep 2023 – Dec 2024

Shop Assistant, Eason, Cork

Part-time retail role in the bookshop during university.

- Managed stock replenishment for **3 departments**, maintaining shelf accuracy above **95%**
- Processed an average of **70 transactions per shift** during peak periods

Education

Sep 2022 – Jul 2025

BSc (Hons) Computer Science in Computer Science, University College Cork, Cork

Graduated with a First Class Honours (**GPA 3.5**). Final year project on automated index recommendation for PostgreSQL databases, graded **H1**.

- Relevant modules: Database Systems, Advanced SQL, Data Warehousing, Distributed Systems, Software Engineering
- Received the **Department Prize** for the highest performing student in the database systems module

Skills

PostgreSQL, MySQL, SQL Query Optimisation, Database Design & Modelling, Backup & Recovery, Performance Monitoring, Bash Scripting, Python, Data Migration, ER Diagrams, pgAdmin, Version Control (Git)

Certifications

Apr 2025 – Apr 2025

Oracle Database SQL Certified Associate, Oracle

Languages

English - Native, Irish - Intermediate

Projects

Oct 2024 – Apr 2025

Automated Index Recommendation Tool (Final Year Project)

Built a Python tool that analyses PostgreSQL query logs and recommends optimal index configurations.

- Tested against a workload of **10,000 queries** from a sample e-commerce database
- Recommendations improved average query performance by **28%** on the test workload
- Received an **H1 grade** and was presented at the **UCC Computer Science Showcase**

References

Dr. Kieran O'Sullivan, Lecturer in Computer Science, University College Cork, k.osullivan@ucc.ie, +353 87 654 3210

Extra Curricular Activity

Sep 2024 – Jun 2025

Tutor - UCC Computer Science Peer Mentoring

Provided peer tutoring to first-year computer science students struggling with SQL and programming fundamentals.

- Mentored **10 students** across the academic year with weekly one-to-one sessions
- All **10 mentees** passed their database module, with **6** achieving a grade of H2.1 or above