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## PROFILE SUMMARY

A React Front-End Developer with a strong foundation in Java. Passionate about clean UI, test-driven development (TDD), and building real-world applications with React, TypeScript, and REST APIs. I hold a First Class Honours degree (NFQ Level 8) in Software Development from Atlantic Technological University, and bring additional depth from a background in classical music performance and education.

## CORE COMPETENCIES

- **Languages & Frameworks:** React, TypeScript, JavaScript, Java (multithreading, OOP), Node.js, Express, HTML, CSS, MySQL
- **Tools & Testing:** Vitest, React Testing Library, JUnit 5, Git, Figma
- **Certifications:** [Introduction to Java \(Hyperskill\)](#), [Introduction to Databases \(Meta\)](#)

## EDUCATION

Higher Diploma in Science in Software Development (NFQ Level 8)

*Atlantic Technological University (2023 - 2025)*

- **GPA:** First Class Honours
- **Modules:** Object-Oriented Software Development, Computer Architecture and Technology Convergence, Software Design & Data Structures, Network Technologies, Database Design & Development, Web Application Development, Computational Thinking with Algorithms, Operating Systems and Cloud Computing, Mobile Application Development, and Agile Development.

Bachelor of Arts (Hons) in Music (Level 8)

*Waterford Institute of Technology (2013-2017)*

- Graduated with First Class Honours
- **Awards:** Bridget Doolan Award, Feis Ceoil Classical Guitar Competition, Feis Ceoil Guitar Bach Competition

## KEY PROJECTS

1. **Assembly Endgame (React, Vite)** - A minimalist word-guessing game showcasing component architecture, state management, and UI clarity. ([GitHub Repo](#))
2. **Sentiment Analysis with Virtual Threads (Grade: 92%)** - Utilised Java virtual threads to process large volumes of tweets for sentiment analysis. Emphasised efficient concurrency and performance optimisation. ([GitHub Repo](#))
3. **ADFGVX Cipher Project (Grade: 94%)** - Developed a Java-based tool for encryption and decryption using customisable cipher keys. Strengthened OOP design, data structures, and file I/O operations. ([GitHub Repo](#))
4. **Database Design Project (MySQL) (Grade: 87%)** - Created a sports club database using advanced SQL queries (joins, subqueries). Designed an ER diagram to ensure efficient database structure. ([GitHub Repo](#))
5. **Full-Stack E-Commerce (Node.js, Express, MySQL, EJS) (Grade: 70%)** - Built a responsive shopping platform featuring product browsing and a cart system. Employed Bootstrap for front-end responsiveness. ([GitHub Repo](#))

## WORK EXPERIENCE

### Private Music Teacher (Self-Employed)

James McDonald Music | 2017 – Present | Kilkenny, Ireland

- Managed a private teaching practice, showcasing entrepreneurship and adaptability.
- Developed strong communication skills by explaining complex music theories to diverse learners.
- Demonstrated leadership and mentoring skills that translate well into collaborative software projects.

## SOFT SKILLS

- **Communication:** Adept at conveying complex concepts in accessible terms.
- **Teamwork & Leadership:** Fosters a positive environment.
- **Adaptability:** Quick to learn new technologies and methodologies.
- **Problem-Solving:** Proven track record in academic projects and teaching problem resolution.

## ADDITIONAL DETAILS

- **Open to:** Remote roles, internships, and entry-level positions in software development (frontend, backend, or full-stack).
- **Expanding Skillset:** Learning React Testing Library, Next.js, Vite and Vitest