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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. **Movie Search App (React, TypeScript, Tailwind, Vitest)** - Built a fully responsive movie search app with OMDb API integration. Features searchable movie cards, detailed views, TDD with Vitest, and a mobile-first, component-driven design. ([GitHub Repo with live demo link](#))
2. **Assembly Endgame (React, Vite)** - A minimalist word-guessing game showcasing component architecture, state management, and UI clarity. ([GitHub Repo with live demo link](#))
3. **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](#))
4. **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](#))
5. **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](#))
6. **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

- Ran a self-employed practice, developing strong client management and communication skills.
- Gained experience explaining complex topics clearly, mentoring individuals, and adapting teaching strategies

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