

Emma Roche

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SUMMARY

Enthusiastic individual with a proactive mindset and a passion for tackling challenges through innovative solutions. With hands-on experience across the full tech stack, I thrive in dynamic, fast-paced environments where I can leverage my creativity and problem-solving abilities to drive project success. Highly adaptable to new technologies, I work effectively both independently and as part of a collaborative team to deliver high-quality results.

TECHNICAL SKILLS

Languages: Python, HTML, CSS, JavaScript, TypeScript, Swift, Kotlin, SQL
Frameworks & Libraries: React, Vue.js, Node.js, Bootstrap, Svelte, Tailwind CSS, Flask, JUnit
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Firestore
Design Tools: Figma, Miro, Canva, Adobe Creative Cloud (XD, Photoshop, InDesign, Illustrator)
Operating Systems: macOS, Windows, Linux

EDUCATION

Master of Science in Computing (Enterprise Software Systems)

Sep. 2023 – Sep. 2024

South East Technological University

Cork Road, Waterford

- **Degree Classification:** First Class Honours
- **Key Modules:** Agile Software Development, Web and Mobile App Development, User Experience Design
- **Dissertation:** Developed an automated generative AI-powered code migration pipeline for application modernisation

Bachelor of Science (Hons) in Creative Computing

Sep. 2019 – May. 2023

South East Technological University

Cork Road, Waterford

- **Degree Classification:** First Class Honours
- **Key Modules:** Software Development Tools, Website and Mobile App Design and Development, Graphic Design
- **Final Year Project:** Developed an iOS application that assists users in finding suitable undergraduate courses in Ireland

EXPERIENCE

UX Design and Frontend Development Volunteer

Sep. 2024 – Present

Tutors

Remote

- Currently engaged in UX/UI design and frontend development work to enhance the user experience of SETU's open-source Tutors application
- Utilising Svelte, TypeScript, and Tailwind CSS to implement changes aimed at improving app usability and visual appeal

Administrative Coordinator

Aug. 2023 – Present

Ken Roche Engineering Ltd

Remote

- Collect and verify employees' weekly work hours for payroll processing and maintain certification records to ensure compliance with industry regulations
- Strengthened organisational skills and the ability to manage multiple tasks independently and efficiently through this role

UX Designer Co-op

Aug. 2021 – Dec. 2021

Analog Devices International

Raheen Business Park, Limerick | Hybrid

- Collaborated with cross-functional teams in the design and development of web and mobile applications for a SaaS solution, enabled by an industrial motor sensor, while effectively managing independent tasks
- Conducted desk-based research on comparable applications and developed user flows, applying analytical and research skills to benchmark and improve user experience
- Created interactive prototypes in Figma and UXPin, demonstrating attention to user needs and proficiency in design tools
- Developed a fully functional login screen for the iOS mobile app using SwiftUI
- Presented work and ideas in design critique sessions, gathering and incorporating feedback from the team to refine concepts and apply them within an iterative design process

Technical Advisor

Jun. 2020 – May. 2021

Apple Distribution International

Remote

- Strengthened problem-solving and critical thinking skills by independently navigating customer challenges and providing support for a wide range of Apple products in a fast-paced environment
- Achieved consistently high customer satisfaction ratings by efficiently resolving technical issues and ensuring a positive user experience
- Developed expertise in communicating complex technical information to non-technical users while managing a high volume of support cases daily, adhering to strict quality and performance standards