

EMMA ROCHE



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PROFILE

Having recently completed my Master's in Computing (Enterprise Software Systems), I am eager to apply my skills and creativity to support an organisation's mission. As a dedicated and motivated individual with a strong work ethic and a positive outlook, I welcome new challenges and embrace innovative approaches. My passion for learning and growth continually drives me, and I am excited about the opportunity to make meaningful contributions as part of a dynamic team.

TECHNICAL SKILLS

- Proficient in HTML, CSS, JavaScript, TypeScript, Python, Swift and Kotlin
- Experienced with open-source frameworks and libraries such as React, jQuery, Vue.js and Flask, including building and integrating RESTful APIs
- Skilled in design tools such as Figma, Miro, Canva and Adobe Creative Cloud applications (XD, InDesign, Illustrator)
- Utilised database technologies such as PostgreSQL (ElephantSQL), Amazon DynamoDB, MongoDB, MySQL, Firebase
- Experience with using Mac, Windows and Linux systems

EDUCATION

SOUTH EAST TECHNOLOGICAL UNIVERSITY | Sep 2023 – Sep 2024
Cork Road, Waterford

Master of Science in Computing (Enterprise Software Systems)

Dissertation: Developed an Automated Generative AI-Powered Code Migration Pipeline for Application Modernisation

- Implemented a pipeline architecture with two Python scripts: An API script (Flask app for receiving POST requests with AI model, prompt and code details) and request script (manages migration and testing processes)
- The pipeline migrates code from Java to Kotlin and JavaScript to TypeScript using pre-trained AI models from OpenAI, Google and Meta
- Established a testing framework, incorporating unit testing and static analysis, to evaluate migration quality and correctness

Key Modules: User Experience Design, Agile Software Development, Website and Mobile Application Development, Cloud Architecture

SOUTH EAST TECHNOLOGICAL UNIVERSITY | Sep 2019 – May 2023
Cork Road, Waterford

Bachelor of Science (Hons) in Creative Computing - First Class Honours

Key Modules: User Experience Design, Website Design and Development, Web and Mobile Application Development

EXPERIENCE

ANALOG DEVICES INTERNATIONAL | Aug 2021 – Dec 2021

Hybrid | Raheen Business Park, Limerick

UX Designer Co-op

During my placement, I gained hands-on experience collaborating with cross-functional teams in the design and development of web and mobile applications for a SaaS solution enabled by an industrial motor sensor. This role involved collaborating effectively with diverse teams both in-person and remotely across different time zones and regions, enhancing my ability to adapt to various work environments. Additionally, I successfully managed independent design and development tasks, showcasing my ability to balance teamwork with self-directed work to achieve project goals.

Key Contributions:

- Conducted desk-based research on comparable applications and developed user flows, applying analytical and research skills to benchmark and improve user experience
- Created wireframes and 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 my work in design critique sessions, gathering and incorporating feedback from the broader team to refine concepts and apply them within an iterative design process

APPLE DISTRIBUTION INTERNATIONAL | Jun 2020 – May 2021

Remote

Technical Advisor

My time working for Apple's Technical Support Team strengthened my ability to navigate customer challenges and solve complex problems independently in a fast-paced environment. I provided support for a wide range of key Apple products, which required mastering technical knowledge quickly and managing a high volume of customer inquiries. I developed strong communication, interpersonal and collaborative skills, ensuring efficient resolution of issues and maintaining a high level of service under pressure.

Key Contributions:

- Achieved consistently high customer satisfaction ratings by resolving technical issues efficiently and ensuring a positive user experience
- Developed expertise in relaying complex technical information to non-technical users via clear and effective communication
- Managed a high volume of support cases daily while adhering to strict quality and performance standards