# Shane McGrath

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## EXPERIENCE

### Software Engineer – Sustain.Life
Aug. 2022 – Oct. 2023

*Outline: Built an enterprise-scale carbon accounting platform using React, TS and GraphQL.*        *Remote, Ireland*

- Lead collaboration with the UI/UX team to deliver reusable and responsive UI components and workflows.
- Worked on Storybook UI components to tighten feedback loops and accelerate shipping new features.
- Mentored team members by pair programming, knowledge sharing and peer code reviews.
- Solved ambiguous problems with a product-minded understanding of the domain and customers needs.
- Contributed to a large codebase with patterns such as microservices and event sourcing.
- Carried out on-call duty providing quick resolution for critical production issues.
- Responsible for zero-downtime production deployments, requiring working knowledge of CI/CD best practices, kubernetes clusters (scaling pods and adding resources) and system architecture.
- Ensured data integrity with quality tests in snowflake SQL queries.
- Increased system robustness and development velocity by delivering comprehensive frontend automated tests, reducing daily manual QA time by 45%.
- Built end-to-end platform integrations with third party providers (Codat/Utility API/Arcadia).

### Frontend Developer – Axial3D
Aug. 2018 – Oct. 2021

*Outline: Delivered frontend product for medical 3D printing startup using React and TS.*        *Belfast, NI*

- Built a responsive frontend to display medical image segmentations, visualizations, and annotations, based on Figma UI/UX design specifications.
- Reduced customer on-boarding time by 35% through usability and UI improvements to the sign-up flow.
- Rapidly delivered new capabilities to validate product direction based on customer analytics.
- Onboarded new team members into the development environment while sharing knowledge and context.
- Equipped with expertise in Threat Modeling and Web Application Security, following OWASP.
- Demonstrated expertise in design patterns, functional programming principles, SDLC, git version control and testing strategies.
- Delivered frontend testing with Cypress and Jest to speed up production deployment velocity.
- Built REST APIs to integrate our customer data in line with the DICOM imaging standard.
- Earned AWS Cloud Practitioner Cert., exhibiting cloud architecture and security expertise.

### Design Engineer (Internship) – PMD Solutions
Apr. 2017 – July 2017

*Outline: Contributed to UI and mechanical design for sleep apnoea wearable device and app.*        *Cork, Ireland*

- Leveraged SolidWorks CAD to design mechanical components and streamlined the workflow by integrating rapid prototyping with 3D printers. Additionally, I trained team members in the effective usage of 3D printers.
- Conducted user research to inform the product roadmap, contributing to the development of a successful web and native mobile application. I also collaborated closely with a small team throughout the development process.

## EDUCATION

### University of Galway
Ireland

*Higher Diploma Software Design and Development*        *1 year*

### 42 US Silicon Valley
Fremont, CA

*Piscine*        *1 month*

### University of Galway
Ireland

*Bachelor of Engineering (Mechanical)*        *4 years*

## TECHNICAL SKILLS

**Languages**: TypeScript, JavaScript, HTML/CSS, SQL, GraphQL, Node
**Frameworks**: React, Node.js, Vue, Angular, Three.js, Next.js, Cypress, Selenium, Jest, Vitest, Material-UI
**Developer Tools**: Git, AWS, Microsoft Azure, Webpack, Vite, Docker, Postman, VS Code, Figma, JIRA
**Libraries**: eslint, prettier, lodash, zod, jsonwebtoken, date-fns, chart.js, axios, tRPC, axios