Mark O'Dowd

SOFTWARE ENGINEER
TypeScript Python Rust

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Experienced software engineer specialising in modern full-stack web applications with React (Next.js), Django and AWS. Combining deep web development knowledge with AWS certifications, I bring applications from initial design through to production with a strong focus on performance, scalability and cost efficiency. I have hands-on experience with CI/CD pipelines, cloud-native infrastructure and application architecture. I am an active learner and open-source contributor (Linux Mint / React packages), consistently exploring new languages, tools and workflows to improve efficiency and engineering quality.

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CERTIFICATIONS

AWS Certified Solutions Architect – **SAA-C03 – Verify**   AWS Certified Cloud Practitioner – **CLF-C02 – Verify**

PROJECTS

FightOrFlight.Studio *– React, Next, TypeScript, AWS, CMS (Contentful)*

   I developed a custom portfolio website for Manchester-based creative studio Fight or Flight, handling both the frontend and backend as well as the supporting AWS infrastructure. I set up automated staging and production environments that the studio owner can deploy to independently. I assisted with domain configuration, migrating to Cloudflare to benefit from its performance and security features. Additionally, I integrated Contentful as the CMS and configured the necessary DNS records to ensure secure and reliable email delivery.

IrishTrad.ie *– Node, Express, TypeScript, React, Cron*

   Irish Trad is a full-stack web application providing sheet music, ear-training modules, and interactive practice tools including a chromatic tuner and metronome. Built as a long-term passion project, it reflects my commitment to creating useful, community-focused tools for the Irish traditional music ecosystem.

EXPERIENCE

Dawson Andrews **– SOFTWARE ENGINEER –** *React, Next, TypeScript, AWS, Vue, Nuxt*

   Dawson Andrews specialise in product design, strategy, and software development that creates meaningful impact

- Designed React (Next) template with best practices and modern tools for use in future products
- Developed complex software application using Vue (Nuxt)

Hurree **– SOFTWARE ENGINEER –** *React, Django, TypeScript, Python* **–** Jan 2023 – Mar 2024

   Hurree is a cross-platform analytics dashboard that enables teams to unify data to gain one high-level overview

- Collaborated with cross-functional teams to deliver high-quality software solutions using React & Django
- Conducted code reviews and provided constructive feedback to team members

Micro Focus **– SOFTWARE ENGINEER –** *React, TypeScript* **–** Apr 2022 – Nov 2022

   Micro Focus is one of the world's largest enterprise software providers delivering mission-critical technology

- Incorporated React into legacy Java project to allow localisation of application
- Mentored junior developers and provided technical guidance

VML Technology **– WEB ENGINEER –** *React, Django, TypeScript, Python* **–** *Nov 2019 – Mar 2022*

   VML Technology pioneers new levels of video maximizing engagement through real-time convergence of data

- Developed API endpoints using Django and maintained web applications using modern technologies
- Designed and implemented responsive and user-friendly interfaces

EDUCATION

Queens University Belfast **– BACHELOR OF SCIENCE IN MUSIC TECHNOLOGY & SONIC ARTS –** 2012 – 2014