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Experience & Projects

Professional

Support Buddy - Twitter feed curation extension

> Sole engineer responsible for the design and delivery of a browser extension for Twitter/X feed curation.
> A funded research project to support women and girls affected by online abuse.
> Built a Chrome extension which uses a custom classifier to detect and apply interventions.

> Reference: Dr. Nancie Gunson, Heriot-Watt University.

TypeScript :: Chrome Extension API :: On-device Models :: Machine Learning :: Content Moderation

Inkwell PR - Full stack AI press release writer

> Sole developer, bringing a full stack webapp React, Node.js, and Firebase to market.
> Integrated with OpenAI and Stripe APIs.

> Impact: took the app from a tech demo to a full subscription service MVP.
> Reference: Darcie Tanner, Darcie Digital Co.

React :: Node.js :: Firebase :: OpenAI API :: Stripe API

PlayerData - Virtual driver testing environment

> Developed a virtual driver testing environment for sports wearable platform.
> Low level peripheral emulation on Arm Cortex-M chips.

> Impact: Improved development efficiency and reduction of in-hardware testing time.
> Reference: Hayden Ball, CTO, PlayerData.

C :: C++ :: Zephyr :: QEMU :: Nordic SoC :: ARM Cortex-M :: JLink :: GDB :: Emulation :: Software Testing

🎓 University

Masters project: Visual music editing with spectrograms

> Demonstrated using advanced signal processing techniques to render an editable spectrogram of a song in an ordinary image format.
> Working with PyTorch for tensor operations.
> Impact: first public domain proof of concept for an analysis-based music editing tool.
> Reference: Dr. John Longley, Lecturer, University of Edinburgh.

Python :: PyTorch :: NumPy :: Signal Processing :: CQ Spectrograms :: Fourier Analysis :: Image Processing :: Creative Software Design

5th year: Binary Abacus - Interactive binary learning tool for learners

> Built a modern, interactive web application using React to help learners interact with binary numbers in a more meaningful way.

> Implemented various encoding options and technical levels (unsigned/signed binary, IEEE 754, ASCII).
> Designed with responsive layout and multiple interaction modes (keyboard/mouse) for accessibility.
> Impact: now used in classrooms across Scotland.
> Reference: Kate Farrell, Lecturer, University of Edinburgh.

React :: TypeScript :: HTML :: CSS :: Accessible Design :: Responsive Design

2nd year: Edinburgh cycle share scheme - data analysis and presentation

> Analysed data from Edinburgh's cycle rental scheme during COVID-19 using Python data science packages

🎓 Education

Edinburgh University - (Masters of Informatics) (2019-2025)

> 78% Masters project mark
> 2:1 Merit (Masters Level)
> Excellence in inventiveness, quality and documentation on programming coursework.

💼 Employment

💼 Heriot-Watt University - Extension Developer (Jan 2026 - Present)

> Cross-functional research group, with machine learning and social science collaboration to mitigate online abuse.

📝 Inkwell PR - Full stack developer (Dec 2023 - Aug 2024)

⚽ PlayerData - Firmware engineering intern (Jun - Sep 2023)

🤸 Edinburgh Leisure - Gymnastics coach (June - Nov 2024)

💪 Edinburgh University Gymnastics - Strength and conditioning coach

☕ Costa (2022-23)	🍦 Artisan Gelato (2022)	🍪 Nairn's Oatcakes (2021)	🛏 Grant Westfield (2021)	🍴 Wetherspoons (2018-19)

🤝 Volunteering & Non-technical Involvement

🤸‍♂️ Edinburgh University Gymnastics Club - Social and fundraising coordinator (2021-2022)

- > Raised £1023 for charity
- > Organised 16 club socials & 2 fundraising initiatives.
- > Raised social participation from 3-5 to 20+ people.