Emily Thomson Kearney

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Computer Science graduate with a strong foundation in secure web development, data analysis, and user-centred design. Experienced in building applications that combine behavioural psychology, accessibility, and encryption, with high-achieving projects. Passionate about creating intuitive systems that solve real-world problems.

Education

University of Brighton

BSc (Hons) in Computer Science, High 2:1   September 2022- June 2025

Relevant modules:

Final Year Individual Project - Motivation and Habit Tracking App (77, First)
- Designed and built an Android app with gamified features (points, rewards, calendar) developed using behavioural psychology research to boost user engagement.
- Implemented MVVM architecture with Room DB for scalable data management, applying colour psychology and accessible UI design principles.

Advanced Web Application Development – Secure Mood Tracker (77, First)
- Developed a progressive web app for mood tracking with AES encryption (CryptoJS) and PIN authentication to ensure user privacy.
- Designed a responsive, mobile-first UI with emoji-based mood selection, accessibility features, and visual progress tracking.

Data Mining – Predictive Analysis Report (65, 2:1)
- Applied machine learning techniques (decision trees, clustering, classification) in Jupyter Notebook to extract insights and produce clear visualisations.

St Dominic's Sixth Form College   London, UK

A Levels: Maths, Chemistry, and Psychology.   September 2019- April 2021

Work Experience

NHS Trust (CNWL)   Euston, London

Admin assistant   August 2024- October 2024
- Configured tablets for patient use by installing updates, disabling cameras, adjusting screen settings, and installing essential apps such as Mirador (remote access) and Brigid (patient records).
- Organised the collection of outdated PCs across hospital wards while also troubleshooting patient PC issues such as connectivity problems.
- Created accessible documentation tailored to non-technical staff, improving usability and reducing dependency on IT support.

NIAS Charity Store   Wimbledon, London

Volunteer   June 2021- September 2021
- Supported the furniture collection and delivery process by gathering customer details over the phone and maintaining organised digital records.

Skills and hobbies

Technical: Python, HTML, JavaScript, CryptoJS (encryption), Database integration, Figma (UX/UI prototyping), MS Office.

Interests: Guitar (lessons and online tutorials), Swimming (fitness and mental clarity)