**Adam Byford**

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Portfolio Site: <https://adamb.tech>

**PERSONAL PROFILE**

Dedicated Software Engineering undergraduate with a strong foundation in various programming languages and technologies. Experienced in developing responsive web applications, iOS games and mobile apps for the iOS platform. Passionate about creating intuitive user interfaces and solving complex problems through innovative software solutions.

**EDUCATION**

2023 – 2027 *University of Leicester*

Software Engineering BSc (Predicted 1:1)

Relevant modules include: Programming Fundamentals; Mathematics Fundamentals; Introduction to Object Oriented Programming; Algorithms, Data Structures and Advanced Programming; Business and Financial Computing; Requirements Engineering and Professional Practice

2021 – 2023 *Colchester Institute, Colchester*

Computer Science

BTEC Extended Diploma Level 3 (Final Grade D\*D\*D)

2016 – 2021 *Clacton County High School, Clacton-On-Sea*

7 GCSEs (A-C) including Maths and English

**WORK EXPERIENCE**

August 2022 – September 2023 *JD Sports Fashion plc, Clacton-On-Sea, Sales Assistant*

* Communicated efficiently with customers ensuring that they were able to locate all items they were looking for.
* Managed customer queries during peak times contributing to an average daily profit of £10,000+ for the store.
* Managed customer complaints and queries over the phone providing answers and redirected them to appropriate contacts boosting customer satisfaction.

July 2021 – August 2022 *Pavilion Fun Park, Clacton-On-Sea, Ride Attendant*

* Managed customer queue during peak hours by effectively communicating with customers reducing waiting times by 20% improving overall business efficiency.
* Delivered requested service to customers ensuring customer satisfaction.
* Collaborated with colleagues to close tasks, ensuring business preparedness for the following day.

**PROJECTS**

25/01/2025 *Development of Keyboard E shop*

* Developed a Keyboard E-shop using Next.js, Tailwind and Spring MVC
* Integrated MySQL through a controller built in Spring MVC for the storage and retrieval of product information
* Implemented a programmatic page for each product ensuring that expansion of future stock is easy
* Built an API in Spring MVC to access product information and display it to the user

07/08/24 – 31/08/24 *Development of Financial Tracker Web App*

* Developed a financial tracking web application using React and TypeScript.
* Integrated Firebase for user authentication, real-time database, and cloud storage.
* Incorporated Tailwind CSS for responsive and consistent UI design.
* Implemented API integration to display real-time prices of user's investments.
* Implemented Tailwind CSS utility classes for efficient and modular styling, resulting in a clean and visually appealing user interface.

17/08/24 *Development of Portfolio Website*

* Designed and developed a responsive portfolio website to showcase projects and professional experience.
* Implemented using HTML5, CSS3, and JavaScript with jQuery for enhanced interactivity.
* Created dynamic visual effects, including a mouse-responsive gradient background.

23/06/24 – 16/07/24 *Development of Incremental Game for iOS*

* Developed a feature-rich incremental game for iOS and iPadOS using Swift and SwiftUI 5.
* Incorporated Object-Oriented Programming principles to create a scalable architecture supporting over 100 unique unlockable items.
* Designed an intuitive and visually appealing user interface adhering to iOS design guidelines.

01/06/24 – 22/06/24 *Development of Media Based Matching App for iOS*

* Created a cross-platform media matching application for iOS and iPadOS using Swift and SwiftUI 5.
* Integrated Firebase for user authentication, profile picture storage, and friend system management.
* Implemented Firestore for real-time data synchronization and efficient friend list updates.
* Incorporated TMDB API for comprehensive media information retrieval and display.

Additional Projects

* **IOS To-Do List App –** Developed using Swift, SwiftUI and SwiftData.
* **AI Storyteller –** Created an interactive storytelling website using Transformer.js and GSAP.
* **Discord Economy Bot –** Implemented using Python, SQLite and Discord.py.
* **Dart Weather CLI App –** Developed a command-line weather app using Dart and API integration.
* **Pokemon Guessing Game –** Built with HTML, CSS, JavaScript and Electron, leveraging the PokeAPI.

**KEY SKILLS**

*Planning and Organisation*

Finished college assignments in advance of the deadline whilst working part-time, showcasing ability to multi-task and prioritise tasks. Tools utilised include a database to track deadlines and work completed on each assignment and a calendar to set aside time for both part time work and college work.

*Team Collaboration*

Effectively collaborated colleagues during part time work to co-ordinate breaks, closing tasks and manage customer flows, ensuring day to day business operation flowed smoothly.

*Communication*

Skills developed primarily through part-time work, involving direct customer communication to ensure fulfilment of their needs. This information was then relayed to colleagues to maintain smooth business operations.

**TECHNICAL SKILLS**

* **Programming Languages**: HTML5, CSS3, JavaScript, TypeScript Swift, Python, Java.
* **Frameworks & Libraries**: React, Next.js, Spring MVC,SwiftUI, React, Tailwind CSS.
* **Tools & Technologies**: Git, Firebase, SwiftData, API Integration, Figma, MySQL, SQLite, Microsoft Office Suite.