Adam Byford

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# https://furthestgoose.github.io/Portfolio-V1/ | [adamby20@gmail.com](mailto:adamby20@gmail.com)

Professional Summary

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

Skills and abilities

* Programming Languages: HTML5, CSS3, JavaScript, Swift, Python, Java
* Frameworks & Libraries: SwiftUI, React, jQuery
* Tools & Technologies: Git, Firebase, SwiftData, API Integration, Xcode
* Soft Skills: Project Management, Team Collaboration, Problem-Solving

Experience

## Development of Portfolio Website 17/08/2024

* 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
* Focused on modern web design principles to ensure optimal user experience across devices

## Development of IOS incremental game 16/07/2024

* Developed a feature-rich incremental game for iOS and iPadOS using Swift and SwiftUI 5
* Implemented SwiftData for efficient local data storage and management
* Utilized 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

## Development of Media Based Matching App 30/05/2024

* 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
* Developed a consistent and user-friendly interface design across iPhone and iPad devices

**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.

Education

## University of Leicester 2023-Present

Software Engineering Undergraduate

Completed a variety of topics and covered several skills including revision of the basics of python, advanced programming, creation of a sleek modern website with HTML, CSS, JavaScript and basics of computer architecture. As well as the fundamentals of working alongside a team to develop a project that not only is high quality but is ready within the deadline of 8 weeks.

## CColchester Institute 2021-2023

Computer Science BTEC Level 3 Extended Diploma

Completed a BTEC level 3 Extended Diploma in Computer Science achieving a final grade of D\*D\*D,,covered a variety of topics including python programming, project management, app development in android studio and game development in unity.Covered design principles in website development included but not limited to wireframing, design palettes and contrast testing.