

Tobechukwu Charles-Ibe

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Education

University Of St Andrews

2022 - Expected 2026

Key Modules: Foundations Of Computing, The Internet and the Web: Concepts and Programming, Advanced Programming Projects, Computer Systems, Introductory Mathematics, Object-Oriented Programming, Programming Projects, Programming with Data

High School Of Dundee

2017 – 2022

Advanced Higher: Mathematics (A), Physics (A), Computing Science (B)

Higher: Physics(A), Computing Science(A), Mathematics(A*), Biology(A), Chemistry(A)

National 5: Physics(A), Computing Science(A), Mathematics(A*), Biology(A), Chemistry(A), Economics(A), English(A), French (A)

Skills

- **Programming Languages:** Python, Haskell, C, Java, JavaScript
- **Tools & Technologies:** Git, HTML, React, Tailwind CSS, Various Other JS Libraries

Notable Projects

PORTFOLIO WEBSITE

April, 2024 – May, 2024

<https://tobyibe.github.io/portfolio/>

- Using my proficiency in React.js, I made a personal portfolio website designed to showcase my skills and experience with web development. The web page utilises Tailwind CSS for responsive styling and design across a wide range of screen sizes and device types, providing a seamless user experience on both mobile and desktop devices
- Implemented a 'Contact Me' page integrated with the emailJS API, streamlining communication between me and users of the site by facilitating automated email responses directly from the website.
- Implemented a variety of other JS libraries for advanced additional functionality such as smooth scrolling, page routing, text animations, notifications and interactive backgrounds, enriching the end user experience.

YOUTUBE TO MP3 WEBSITE 2024

May, 2024 – May,

<https://tobyibe.github.io/yt2mp3/>

- Using my proficiency with React.js and Tailwind CSS, I created a YouTube To MP3 converter that takes in a YouTube URL/link and queries an API in order to get an MP3 file of the given video
- Utilised Regular Expressions in order to process and extract information from the given URL in order to query an API to generate a download link
- I styled the site responsively and with a dark mode, ensuring a more aesthetically pleasing and customisable user experience, and ensuring the site works seamlessly across a variety of screen sizes

JAVA CHATBOT

February, 2023 – March, 2023

<https://github.com/tobyibe/Eliza>

- Developed a Java ChatBot inspired by the 1960s Eliza chatbot, utilising Regular Expressions and pattern matching for dynamic user interactions
- Implemented script-reading functionality to load in different conversation scripts and responses ensuring the chatbot can accurately simulate human conversations across a wide range of niches based on given pre-defined scripts
- Designed and implemented a system of pre and post substitutions using hash maps in order to understand a more wide range of user inputs and to respond contextually to user inputs.
- Incorporated random response selection features and realistic delays in order to make interaction more natural and engaging

Awards

- United Kingdom Mathematics Trust (UKMT) Silver Award
- Duke Of Edinburgh Silver Award

Additional Information

Sports: Competed playing rugby and football and a passionate long distance runner

Interests: Programming | Sports | Artificial Intelligence | Web Development | Cooking | Networking | Education | New Technologies