TARRIN CURTIS

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EDUCATION

Cardiff University
BSc Computer Science (with a Year in Industry) September 2022 - June 2026

- **Expected:** 1st Class
- **Relevant Modules:** Probability and Discrete Mathematics, Linear Algebra, Data Structures and Algorithms, Object-Oriented Java Programming, Web Applications, Principles of Software Engineering.

Bridgwater and Taunton College September 2020 – July 2022

- **BTEC Level 3 Computing:** 3 x Distinction*

Robert Blake School September 2014 – July 2020

- **GCSEs:** 8 x Grade 6 - 5, including Maths, English and Science

SKILLS

Programming Languages: Java (proficient), JavaScript/Typescript (proficient), Python (intermediate), C++ (basic), C# (prior experience)

Technical Skills: Data Structures, Algorithms, Git, React, Express, Flask, APIs, Node.js, PostgreSQL, SQLite, Prisma, Redis, Tailwind CSS, HTML5 & CSS3

PROJECTS

Freelance Job Posting Web App *(PERN stack, Typescript, Prisma)*

- Implemented real-time communication using web sockets. Users can upload up to 3 files with a message, create group chats, and mention other group members.
- Transformed and stored images using Cloudinary's Node.js SDK to compress WebP files, helping improve server bandwidth by 50-60% and reduce image file sizes by 40%.
- Fully customizable notifications system that gives users the flexibility to choose what notifications they receive such as mentions, order requests, and rewards.

Shoe E-Commerce Web App *(React, Typescript, Flask, PostgreSQL, Redis)*

- Implemented Amazon's Item-To-Item collaborative filtering algorithm using Python's NumPy module to recommend products to users based on what other customers bought.
- Allows users to monitor the progress of orders and gives authorized personnel the ability to update these orders through the backend API.

Algorithm Visualizer *(React, Javascript)*

- Implemented animated visualizations for algorithms and algorithm techniques including Dijkstra's Algorithm, Dynamic Programming, Depth-First Search, and Breadth-First Search.

Dictionary Web Scraper *(Python)*

- Developed an all-in-one graphical desktop application that has features such as a dictionary web scraper, calculator, and a to-do list.

ACCOMPLISHMENTS AND LEADERSHIP

Student Mentor, Cardiff University 2023 - present

- Maintained a stable relationship with first year students studying Computer Science and kept them up to date with important university changes.
- Managed time around university to schedule regular meetings with my mentees to answer any

questions about university life, studying for exams, job opportunities, etc.

INTERESTS

Coding Competitions: Compete in the Leetcode BiWeekly coding competitions to sharpen my problem solving skills, work on performance under pressure, and increase my skill rank.