★ BENSON CHOW ★

SOFTWARE DEVELOPER & TECHNOLOGY ENTHUSIAST

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◊ MISSION SUMMARY ◊

Passionate problem solver with a focus in computer science. Specialising in software development, 3D printing, high-fidelity audio systems, GNU/ Linux and creating innovative technical solutions. Interested in full-stack development with a focus on user-centric applications and system optimization protocols.

◊ WORK EXPERIENCE ◊

▶ DATA SCIENCE INTERN
2024, July - September

ARUP

- Automated processing and formatting of Hong Kong Annual Traffic Census data, reducing manual workload and errors.
- Developed a PyQt6-based Windows application with a user-friendly interface for data input/ selection and tool execution.
- Implemented six specialized tools to convert and validate custom CDL, A/B, COR, and XDT files into standardized Excel reports.
- Leveraged multithreading to maintain responsive UI during intensive data processing tasks.
- Packaged the application as a standalone .exe using PyInstaller for seamless distribution to non-technical staff.

▶ SOFTWARE ENGINEERING INTERN
2025, June - July

AI Lab Limited

- Researched the ESP32 micro controller for a teaching curriculum, creating a DIY security camera as a demonstration project.
- Developed multiple web applications using Flask, Python, JavaScript, and HTML.

◊ EDUCATION ◊

▶ A-Level
2022 - 2024

Malvern College

Relevant Coursework: Campus Interactive Map

- Developed an interactive campus map using Leaflet.js and satellite imagery to display paths, entrances, parking, and stairs.
- Implemented Dijkstra's Algorithm for shortest path calculation with filters (e.g., avoiding stairs).
- Created an event reporting system with MongoDB, role-based user accounts, and caching for efficient data access.

▶ COMPUTER SCIENCE BACHELOR
2024 - current

University of York

◊ TECHNICAL KNOWLEDGE ◊

▶ PROGRAMMING / MARKDOWN LANGUAGES

Python | Java | JavaScript

▶ WEB TECHNOLOGIES

HTML5 | CSS3 | Jinja2 | Flask | Bootstrap v5.0

▶ DATABASE TECHNOLOGIES

MongoDB | SQL

▶ TOOLS & TECHNOLOGIES

Git | GNU/ Linux | AWS | VS Code

▶ DESIGN & FABRICATION

Fusion 360 | 3D Printing | Blender

▶ AUDIO & HARDWARE

Audio Engineering | Computer Hardware | Computer System Building

◊ FEATURED PROJECTS ◊

See more about the projects at my website's projects page.

▶ Malvern Maps
December 2022 - december 2023

An interactive map of Malvern College

Tags: Multi languages, Web Development, Flask

GitHub Repo

▶ Computy the dorm server
January 2025 - May 2025

NAS, media steaming server and general server setup in my Y1 dorm at University of York

Tags: Networking, 3D Printing, Hardware, Python

GitHub Repo

▶ ATC tools
July 2024 - September 2024

Automated data picking of Hong Kong's Annual Traffic Census

Tags: Python, PyQt, Pandas, Pyinstaller

▶ Dorm 3D printing setup
October 2024 - April 2025

3D printing setup in my Y1 dorm at University of York

Tags: 3D Printing

▶ Seraphine
June 2021 - January 2024

A Discord bot designed to improve activity within Seraphine and allow for integration of hypixel skyblock within Skyhub

Tags: Python, Discord.py, Asyncio

GitHub Repo

▶ Modded Keychron Q3
September 2022 - June 2023

The details of a custom keyboard build.

Tags: Keyboard