Matthew Barber

Contact me for
personal details

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Projects

Examples of my work include:

quine.gz
GZIP file that decompresses to an exact copy of itself, ad infinitum. Self-referential CRC was brute-forced by multiprocessing `Python` script.

Space Hermit
POV animation of a cockpit in space, made with `Java` and `LWJGL`. Includes custom bobbing and shake-cam SFX code.

MTR Network Info Centre
`Java` program for finding out information about Hong Kong's trains. Required implementing a graph data structure and the BFS algorithm.

Twitter Anew
`Python` CLI tool to manage accounts following too many users. Utilises the Twitter API and the platform's List feature.

University events platform
`Node.js` site for students to manage events for their societies. Uses `Express.js` for routing and `MongoDB` for data management.

Expert system
`Common Lisp` implementation of forward chaining for an inference engine.

All of my projects can be found at github.com/Honno.

Employment

Starbucks
September 2018—February 2019

Café chain

Preparing various beverages on request with speed, quality and consistency.
Working cohesively with team members to make all aspects of the operation run smoothly.
Taking customers orders, responding to enquiries and remedying any issues.
Responsible for quality control and the cleanliness of the store.

Adventure Island
July—September 2017 & 2018

Amusement park

Serving customers tickets and wristbands to gain access to the rides and facilities of the park.
Explaining the park's various offerings and responding to any enquiries.
Regularly communicating with team members and leaders to meet the changing needs of the day.
Mitigating conflict when service was refused due to unreasonable requests or facility misconduct

Volunteering

Southend Churches Winter Night Shelters
November—April since 2015

Overnight homeless shelter network for winter months

Evening and morning shift volunteer assisting guests and other volunteers with various tasks.
Preparing the venue before guests arrive and tidying up the venue after they left.

Off The Streets
September 2018—January 2019

Overnight homeless shelter

Full shift (evening to morning) volunteer, responsible for maintaining peace.
Connecting with guests to assist integrative steps such as finding work and housing.
Dealing appropriately with problematic behaviour from guests.

Education

Aston University
September 2016—

Studying *BSc Computer Science*; expected graduation June 2020.

Southend High School for Boys
September 2009—June 2016

2016 A Levels

Computing (B), Mathematics (B), Physics (C).

2014 GCSEs

11 pass grades (A*-C) including English, Mathematics and Triple Science.