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Education

University College London Computer Science (Distinction - Avg. 85%)
University of Manchester Computer Science (Distinction - Avg. 83%)
Bellerbys College Computing (1ST in Cohort - Avg. 84%)

London, UK Sep. 2021 - Sep. 2022 Manchester, UK Sep. 2018 - Sep. 2021 Brighton, UK Jan. 2018 - Jun. 2018

Skills_

Programming (>10k lines) Java, Python, HTML/CSS, Typescript/Javscript; (>2k lines) C#, Matlab, C, GLSL.

Tech Stack Map Reduce, Spark, ReactJs, ThreeJs, NextJs, SASS/SCSS, SQL, Pytorch, Numpy, Matplotlib, NodeJs, Jenkins.

Environment Git, CR, CI/CD, AWS, Scrum, Markdown, Unix, latex, VSCode, Jetbrains'. **Language** (native) Chinese and Cantonese; (fluent) English; (beginner) Japanese.

Experience

Software Engineer Mentor University of Manchester

Oct. 2022 - Nov. 2022

 Mentored a group of 8 second year undergraduate students as they contribute to a open source project. Received positive feedback from students.

NoGhost Machine Learning Engineer - Python

Jun. 2022 - Sep. 2022

- · Part of Masters degree project at UCL, condensed a thesis which highly-rated by engineers and professors.
- · Built multi-processing data pipeline, improved and implemented state-of-the-art machine learning papers.

Amazon - Alexa Software Engineer Internship - Java

Jun. 2021 - Sep. 2021

- Built and embedded an experiment framework into the existing question-answering pipeline. Conducted experiments with 1% customer traffic, and presented a highly-rated proof-of-concept report.
- · Developed an efficient workflow for future experiments, and reduced experiment deployment time needed from days to hours.
- · Received full-time offer.

Amazon - Item Safety Software Engineer Internship - Java

Jun. 2020 - Sep. 2020

- Developed procedures that aggregate ≈3 billion item records into concise datasets daily using tools based on Spark. Built an effective modern visualization dashboard with these datasets using Elastic Search and Kibana.
- Developed an API package for automating the creation of visualization components and dashboards.
- Received full-time offer.

Selected Projects_

Personal Website HTML/CSS, Typescript, and GLSL

Sep. 2021 - Present

• Implemented features: (1) RSS feed backed by CORS proxy server deployed with AWS Lambda. (2) Automated integration using Github Actions. (3) 3D landing page built with React-three-fiber and custom shaders. (4) Responsive and modern CSS. (5) Search engine optimization.

Local Nameserver Python

Feb. 2022 - Mar. 2022

• Written a local nameserver that able to resolve any IPv4 address according to RFC 1034 and RFC 1035 specification.

Map Reduce Utilities JAVA

Feb. 2020 - Mar. 2020

· Developed programs for performing common tasks such as computing tfidf for large document database using Apache Hadoops Map Reduce.

MP3 Music Player & Flight Management System JAVA

Mar. 2019 - Jun. 2019

- A MP3 player with GUI and custom database, supports functionalities such as play, pause, restart, and upload custom songs.
- · A flight management system with GUI and custom database, supports functionalities such as booking, reschedule, cancel and swap flights.
- One of three students who managed to complete this coursework over past 5 years.

Propositional Logic Utilities JAVA

Oct. 2019 - Nov. 2019

• A tool for parsing and manipulating propositional logic formulas, supports normal form conversions, push negations, and tautology checks.

Image Downloader Python

Jun. 2019 - Aug. 2019

· Designed and implemented an API supports login, multithreading downloading, parsing and filter images, along with a graphical user interface.

Photographic Mosaic Python

Aug. 2019 - Aug. 2019

 Built a multi-processing library for generating photographic mosaic, capable of processing and matching over 30k images within 3 minutes, supports various RGB-based and LAB-based color difference algorithms.

Collaborate Live HTML/CSS, AND JAVASCRIPT

Jan. 2019 - Mar. 2019

- · Led 7 students to build a web application for a code-based interview. Features include real-time coding, drawing, compliation and terminal.
- Awarded 1st place in most appealing idea and highest technical quality prize (2/4 prizes) out of 37 teams.

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