Charles Piper

London, United Kingdom

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EDUCATION

University of York, York

MEng in Computer Science & Artifical Intelligence (with a year in industry). Average first and second year grade - First class honours

Greenhead College, Huddersfield Alevels:

Outwood Grange Academy, Wakefield GCSEs: September 2022 - Present

September 2020 - July 2022

September 2016 - March 2020

RELEVANT EXPERIENCE

Information Systems Consultant

September 2021 - Present Wakefield

- Planned and deployed networking and server solutions; deployment and management of IT equipment and other system administration tasks.
- \cdot Ongoing software and hardware maintenance including upgrading outdated server components and troubleshooting.
- Provided technical support to employees, addressing any issues or concerns that arose with their computer systems in a timely and professional manner.
- \cdot Conducted regular system backups and implemented disaster recovery plans to ensure the continuity of the packaging firm's operations in the event of a system failure or outage.

Software Developer

January 2023 - March 2023 Wakefield

- \cdot Solely designed and developed a full stack ecommerce website for a subsidiary of a packaging company using modern web technologies such as HTML, CSS, JavaScript and React.
- $\cdot\,$ Built the website from the ground up, ensuring that it was user-friendly, visually appealing, and optimized for search engines.
- \cdot Implemented a secure payment gateway using Stripe to enable customers to purchase products online, while also ensuring that customer data was kept confidential and secure.
- \cdot Provided ongoing technical support and maintenance for the website, ensuring that it remained up-to-date and functional at all times.
- $\cdot\,$ Trained the packaging company's staff on how to manage and update content on the website, empowering them to make changes and additions independently.
- \cdot Implemented a responsive design that ensured the website was optimized for use on mobile devices, enabling customers to easily browse and purchase products from their smartphones and tablets.

EXPERIENCE



MISCELLANEOUS EXPERIENCE

Individual Projects

Software Development

- Developed reusable and modular code components in React that allowed for scalability of future web applications.
- \cdot Worked with version control systems such as Git to manage code changes and collaborate with other team members.
- \cdot Built and maintained robust and scalable databases using technologies such as MySQL and MongoDB for uses in stock management applications.
- $\cdot\,$ Explored machine-learning platforms, mainly TensorFlow, by training a custom object-detection model using my own dataset.
- $\cdot\,$ Designed and implemented RESTful APIs to facilitate communication between the front-end and backend of software applications.
- Successfully completed the JPMorgan Chase & Co. Software Engineering Virtual Experience course, gaining practical experience in developing financial applications.
- Employed ethical hacking techniques and participated in controlled cracking exercises to test the effectiveness of security controls whilst completing virtual work experience with Goldman Sachs.
- \cdot Co-developed a website for Sheffield University iForge; which facilitates control over a network of 3D printers, and orchestrated a seamless print job submission process for hundreds of monthly users.
- \cdot Partnered with a prominent digital marketing firm based in Dubai, to present and highlight the company's array of services by developing a NextJS website.
- \cdot Developed a custom CNN for flower classification using PyTorch and the Oxford Flowers 102 dataset, documented in an accompanying scientific paper for a university module.
- \cdot Gained experience in using a large computer cluster, submitting batch jobs and managing large computational resources efficiently for complex data processing tasks.

TECHNICAL STRENGTHS

Programming Languages	Python, Java, HTML, CSS (+Tailwind), JS, TS
Technologies	React, Node, Vue, Next, Docker
Databases	MySQL, MongoDB
Tools	Git, Linux, LAT_EX , Firebase, Fusion 360 (CAD)
Graphics Design	Photoshop, Illustrator, InDesign, Premiere Pro, AfterEffects, Figma