

SANDRA CZERNIK

Newcastle, UK · 07479553893

· sandraczernik1@outlook.com · www.linkedin.com/in/sandra-c-007238129/ · <https://github.com/sandraczernik> ·

An enthusiastic Computer Science student with a passion for problem-solving and technology. Knowledge of a variety of programming languages such as Java and C#, with past experience of utilising programming languages in several projects with real clients. Currently looking for a software developer role with a well-established company, with the opportunity to learn new skills, technologies and frameworks whilst developing existing ones.

EDUCATION

SEPTEMBER 2019 - CURRENT

COMPUTER SCIENCE - MASTER OF SCIENCE, NORTHUMBRIA UNIVERSITY

SUTHERLAND BUILDING, NE1 8ST

- Currently in master's year, graduating in June 2023 with a predicted 1st class honor's degree.
- Undertook a variety of modules from Java, C# and web, as well as ethical hacking and cybersecurity.
- Project lead several modules including the creation of automated Gantt charts using Microsoft Excel.
- Currently working on a master's research paper focused on AI, where a new method of distributed training is proposed within machine learning models to reduce hardware requirements and increase accessibility.
- Used Java, PHP and React in several projects including both mobile and web applications.

SEPTEMBER 2016 - JULY 2019

EXTENDED DIPLOMA, READING COLLEGE

KING'S RD, RG1 4HJ

- Certificate in First Language English: **B**
- Cambridge International Level 1&2 Certificate in IT: **DM**
- IT level 3 extended diploma: **D*D*D**
- Gained experience in Python, C# and Visual Basic

AUGUST 2012 - 2016

GCSE'S, READING GIRL'S SCHOOL

NORTHUMBERLAND AVENUE, RG2 7PY

- Achieved 10 GCSEs from A* to C
- Gained experience in Web Development

EXPERIENCE

SEPTEMBER 2021 – SEPTEMBER 2022

TRIFIX GROUP

- Industry experience working on a web-based procurement and purchasing system to handle all inventory management including stocks, including the use of HTML, PHP and CSS, as well as SQL queries.
- System-generated Microsoft Excel files using data within the system as receipts for businesses and customers.
- Assigned team leader and created a role-based login system with permissions.

NOVEMBER 2018 – SEPTEMBER 2019

SALES CONSULTANT/STOCK ASSISTANT/ADMIN, NEXT PLC

- Offering fast and friendly service to customers
- A tailored experience for customers to find the appropriate products.
- Meeting deadlines to promptly transfer stock in and out of the store.
- Keeping operational areas of the store clean, tidy, and organized

SEPTEMBER 2018 – NOVEMBER 2018

SALES COLLEAGUE, CURRYS PC WORLD

- Asking the right questions to match customers with products.
- Creating an exceptional customer-first experience
- Contributing towards the overall sales performance of the store
- Working across different departments and product ranges, mainly the computer department
- Gained confidence while working in a team

SKILLS

- Java
 - All Java projects included both unit testing and ad hoc, where needed, with detailed documentation to ensure the usability of each solution.
 - Developed mobile applications using Java for several projects, focusing on storing data using SQL and the use of push notifications for both the smartphone and a smartwatch, including:
 - A medication reminder application for Android with notifications and SQL queries, as well as the ability to use the app through a smartwatch.
 - A mood tracking application with SQL queries and utilising several libraries to add additional functionality to the application.
 - This is currently private on my GitHub as it is still an ongoing project.
 - Created a system for a team of caretakers which handled task management and allocation with a GUI.
- Networking
 - Past experience utilising Cisco Packet Tracer to create several network topologies for a project, including building both simple and complex networks.
 - One project required the use of several topologies such as mesh, star, ring and bus, with a further essay to describe the details of each topology and its advantages and drawbacks. This project also required different IP addresses to be configured in the network with other devices such as mobile phones and printers to ensure connectivity.
 - Good understanding of IP networking
- MS Excel: running and creating macros (VBA), IF statements, data validation, scheduling, email filters, data analysis
 - Created multiple Gantt charts as the team leader during several projects, including as part of a development project for a client, with the use of formulas to automate the Gantt chart and its milestones to show the completion percentage.
- Visual Basic
 - Developed an application for a shopping centre as part of a project to show customers information about stores and amenities located within the building, as well as travel options.
- HTML, CSS and PHP
 - Developed a system for Trifix Group using HTML, CSS and PHP.
 - This system was designed for a real client that would allow them to check stock numbers, send receipts to clients through emails, search for a specific item within the inventory and to automatically reorder a stock if it was below a certain amount.
- React, Javascript & Three.js
 - Utilised React, Javascript and Three.js in projects to create a portfolio, as well as Node.js.

- Currently completing courses online alongside the degree to further my knowledge in more front-end technologies.
- C#
 - Developed an event management system utilising technology such as Entity Framework and LINQ, as well as utilising architectural patterns like MVP (Model-View-Presenter) and various other design patterns.
 - Worked as part of a team to develop a game for a project within Unity using C#.
- SQL
 - Experience in developing systems which utilised the use of MYSQL and SQLite.
 - Utilized in several mobile applications which were developed for projects, such as a medication reminder and a mood tracker.
 - Used in web-based solutions such as the system developed for The Trifix Group.
 - Complex SQL queries for the search bar and inventory system.
- Teamwork, Leadership and Time Management skills
 - Project lead several groups, including consistent communication between the team and clients through the use of regular meetings, as well as creating an automated Gantt chart to track all team members' progress throughout the duration of the projects.
 - Creation of risk assessment charts to evaluate potential risks that could occur during the project, and how they could be mitigated, as well as the creation of a risk matrix using Microsoft Excel.
 - A scrum approach was used in group projects to aid in completing all deliverables and milestones on time for clients.
- Cybersecurity awareness
 - Written a paper about recent cybersecurity threats such as different ransomware and how they spread, as well as preventative measures that could be taken to mitigate an attack in the future.
- Full clean driving license
- Interests
 - Programming
 - Reading
 - Painting
 - Playing guitar

VOLUNTEERING

- Previously **volunteered** as a part of a work experience program in secondary school for two weeks in a **t-shirt printing and embroidery business** which included both physical and **IT skills**.
 - Answering phone calls to accept orders and receive complaints and dealing with them in a friendly manner.
 - Creating designs and adding designs onto clothes and gift items using Photoshop
 - Organizing orders to make sure everyone receives their items using eBay and Microsoft Excel.
 - Stock movement to get it ready for printing.
- **Worked with a small business** for one of the modules at Reading College and **aided** them in **improving their use of social media** websites.
 - Adding scheduled posts to social media platforms such as Facebook and Twitter.
 - Reviewing the current use of social media & creating reports to help the business improve.
- Currently part of Computer Science & Video Games, as well as the Computer Society at Northumbria University.