Koda Allison

07474 400402 | kodaallison@icloud.com | https://github.com/KodaAllison |
https://www.linkedin.com/in/koda-allison/ | https://koda-allison-portfolio.vercel.app/

As a final-year Computer Science student at Newcastle University, I am eager to launch my career in software engineering after graduating in the summer of 2025. Growing up, my favourite word was always 'Why?'—this curiosity has been a constant driver, pushing me to explore new technologies and find enjoyment in solving problems. I take pride in my attention to detail, which is evident in both my academic work and my personal life, such as precisely tracking my training and diet to achieve fitness goals - currently training for the 2025 Barcelona Marathon. I am eager to build upon the technical skills I have learned so far in academic and personal endeavours in a professional environment where I believe I can make a valuable contribution and continue growing.

Education

Newcastle University   2022-25

BSc Computer Science (Software Engineering)

Modules Include: Foundations of Data Science, Algorithm Design and Analysis, Software Systems Design and Implementation, Software Engineering group work

Expected: First Class Honours, First Year & Second Year Result: First

St John's Sixth Form, Bishop Auckland   2020-22

A Levels

Computer Science (A), History (B), BTEC Sport (Distinction *)

Co-founded 'IT and Coding Club'

Technical Skills

- Python,
- Flask, Pytest
- Java
- Junit
- SQL
- MongoDB

- Docker,
- HTML,CSS,
- Tailwind CSS,
- JavaScript & TypeScript
- React, NextJS,
- Git, Github Actions,

- CI/CD
- Agile Software Development Cycle,
- DevOps

Projects & Certificates

University Project - Lottery Web App   Nov - Dec '23

We were asked to extend an existing lottery app by implementing security paradigms. Error handling for errors 400, 403, 404, 500 and 503 with suitable landing pages when said error occurred. Also added user registration, login and account editing capabilities which meant using SQL to interact with the database. Expanded upon this by implementing user authorisation so only admins could access certain things. Also got introduced to encryption for passwords and lottery draws alongside storing logs of user activity. Used HTTPS protocol to secure data transmission and security headers to still allow reCaptcha 2FA and JavaScript loading.

University Group Project   April - May '24

We were assigned groups and told to pick one of the UN climate change goals. We then had to propose app ideas to be reviewed and approved by the uni. Then we had to go through the whole software development cycle; researching, designing, developing, testing and then presenting our app. We used **Python** and **Flask** for the front end and **PostgreSQL** for the back-end. We were also introduced to using **Docker** and **GitHub actions** in this module.

Personal Project - WeatherApp   May '24

Used **NextJS** and a free weather **API** to create a fully functioning weather app. The app displays various aspects of weather data and allows users to search for specific locations with reasonable error handling. Users can add and remove locations to and from a favourites list stored in **local storage**.

JPMorgan Chase & Co. Software Engineering Lite virtual experience program on Forage   June '24

Completed a simulation focused on completing an engineering ticket for a system in the credit-card rewards department of JPMorgan Chase & Co. Made use of Java and created a new class to get an existing system up and running. Wrote a test suite for the class

Personal Portfolio   July '24

  Built using **NextJS** and **Tailwind** to showcase a bit about myself and some of the coding projects I have completed.

Personal Project - FiveSomewhere   Aug '24

  A play on the popular phrase used to start drinking early in the day. A **React** app that currently uses **MongoDB** to store data about various cities, their time zones, population's favourite beer. When loaded it only returns cities where it is 5 pm. Currently looking to migrate this from a hardcoded database to using **OpenAI** to generate cities to get more information about the places.

Experience

Back Of House, Nandos, Newcastle   July '23 - Present

  Work within a team to produce high-quality food following Nando's strict food quality, maintain high standards of cleanliness, and comply with food safety and health protocols.

  Transferable Skills:

  Attention to Detail: Ensured precision in food preparation and presentation.

  Time Management: Managed multiple tasks effectively.

  Teamwork and Communication: clear communication and cooperative *problem-solving* in a fast-paced environment

Shift Leader, One Stop, Crook   Jan '22 - Jan '23

  Trusted key holder, responsible for the opening and closing of the store. Coordinated the team, signed for deliveries, completed stock and cash counting audits, and resolved customer issues.

  Transferable Skills:

  Leadership: Delegate tasks to ensure efficient running of the store

  Problem-Solving: Addressed and resolved operational and customer issues.

Customer Service Assistant, One Stop, Crook   March '21 - Jan '22

  Served customers face-to-face whether at the checkout or helping them with various queries. Ensured the store was clean and shelves were well stocked.

  Transferable Skills:

  Customer Service: Delivered high-quality service and addressed customer needs.

  Communication: Interact effectively with customers and team members.

  Adaptability: Adjusted to changing customer demands and store priorities.

Other Skills & Interests

- Passionate about travel, socialising, and staying active through sports and fitness.
- Play American Football for the University - pushed me out of my comfort zone to learn a brand new sport
- 5 a side football weekly with friends
- Use apps such as my MyFitnessPal to carefully track diet, Strava for running & Gravitus for weightlifting
- Enthusiastic learner, consistently exploring new information across various topics, primarily through reading, podcasts, and YouTube videos.