

ALEX MORGAN

Software Engineer

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PROFILE

Passionate and detail-oriented Computer Science graduate with a strong interest in building reliable software. A quick learner and team player who is comfortable working across the stack and keen to develop further in a fast-paced environment.

EXPERIENCE

Northstar Labs, Bristol — Software Engineering Intern Jun 2024 – Sep 2024

- Was responsible for building a Python validation service which was used to check around 120,000 records every day against a set of 12 business rules defined by the product team.
- Worked on improving the performance of internal tools.
- Collaborated with the engineering team on new features for the customer dashboard.
- Took part in code reviews and daily stand-ups.

Waterside Café, Bristol — Team Member (part-time) Oct 2022 – May 2024

- Served customers and handled cash and card payments during busy weekend shifts.
- Trained three new starters on the till system.

PROJECTS

Transit Monitor — TypeScript, React, Node.js, PostgreSQL 2024

- Built a dashboard that tracks service disruptions across 6 Bristol bus routes, with a PostgreSQL data pipeline that ingests open data every 5 minutes.
- Responsible for the React frontend and the Node backend, and also wrote automated integration tests for the API.

Recipe Share — Python, Flask, SQLite 2023

- A small web app for saving and sharing recipes, with user accounts and search. Various features.

EDUCATION

University of Bristol — BSc Computer Science, Upper Second Class (2:1) Sep 2021 – Jun 2024

Final-year project: anomaly detection in public transport arrival data (Python, scikit-learn), graded 72%.

Relevant modules: Software Engineering, Databases, Distributed Systems, Machine Learning.

Redland Sixth Form College — A levels: Mathematics (A), Computer Science (A), Physics (B) 2019 – 2021

SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Frameworks and tools: React, Node.js, Flask, PostgreSQL, Docker, Kubernetes, AWS, Git, GitHub Actions

Spoken languages: English (native), Spanish (conversational)