

# TOM LACY-ALCOCK

Software Developer

Leeds

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## STATEMENT

I am discovering a deep passion for the rewarding and intellectually stimulating world of coding. My intrinsic curiosity about how things function drives my motivation, and I find coding provides the mental challenge I crave. With a track record of determination, resilience, teamwork and leadership, I am eager to contribute to a team with a strong learning culture to create Software that positively impacts people's lives. The combination of problem-solving and meaningful impact in programming excites me.

## TECHNICAL SKILLS

- |  |  |
|--|--|
| ✓ JavaScript, TypeScript                         | ✓ HTML, CSS, Tailwind, React, Phaser, Next |
| ✓ Node   | ✓ Lighthouse and other Accessibility Tools |
| ✓ Test Driven Development (TDD), Jest, Supertest | ✓ Render, Netlify, Github                  |
| ✓ SQL, PostgresQL, Firebase, Seeding, Migration  | ✓ Agile and SCRUM methodologies            |

## EXPERIENCE

### Trainee Software Developer (Bootcamp), Northcoders, 08/23 - 11/23

- Mastered the fundamentals of JavaScript, including using Test Driven Development, Object Oriented Programming and Recursion
- Successfully developed one Full Stack application and one Full Stack desktop game using Agile Methodologies
- Created **100% of projects on time** and received positive feedback from all tutors and users

### Mathematics Plus Tutor and Mentor, Tutor Trust, 11/23 - present

#### Mathematics Tutor, Spires, 08/23 - present

- High quality planning and outstanding delivery of small group tutoring, being a number one role model to disadvantaged young people
- Expert monitoring of progress and excellent communication with teachers, school coordinators, lead tutors and parents
- Achieved **100% positive feedback** rate from pupils and teachers

### Faculty Leader / Assistant FL, Maths and Computer Science, St Mary's Menston, 09/20 - 08/23

- Lead a team that produced the best GCSE and A Level results in 5 years, where the average grade **increased from 4 to 6.**
- Collaborating with other managers across Leeds, contributing to and leading on **over 10** whole city projects
- **Managed a team of 10+ staff, mentored 3** newly qualified teachers and delivered engaging, evidence based training sessions weekly
- Accountable for leading, managing and developing the whole Faculty
- **Achieved the staff recognition award**

### Teacher of Mathematics and KS3/4 Achievement Lead, Carr Manor Community School, 09/16 - 08/20

- Lead on KS3/KS4 achievement in Maths, resulting in pupils making better than expected progress **increasing from 40% to over 60%**
- **Achieved 3 Coach of the term awards**
- Achieved **outstanding in 90%** of lesson observations over the 4 year period

## PROJECTS

### Pixel Plunge Desktop Game

- JavaScript, React, Phaser, Firebase, Tailwind CSS
- Barriers and Solutions: Understanding Phaser as a brand new framework, considering the documentation is not detailed enough for a beginner. To overcome this, we carefully discussed the documentation at each step of development and looked for other video tutorials and articles to help us build up the layers of the game

### Full Stack app - NC News

- JavaScript, React, Vite, React-Router, CSS, Axis
- Barriers and Solutions: Props drilling and ensuring components had the states they needed to function and not overusing states within components. This required a carefully planned wireframe, detailing how components interact with each other, as well as keeping components small and avoiding excessive use of state.

### Back End - NC News

- JavaScript, PostgreSQL, Express, Jest, Supertest, Husky, Dotenv, pg, pg-format
- Barriers and Solutions: Separating functions into Models and Controllers and ensuring all exports and imports were consistent. I overcame this by ensuring my testing was detailed and consistent, writing 52 tests overall. Git conflicts were common as we collected feedback throughout the project. I learnt how to make pull requests and successfully review the conflicts through GitHub and VSCode before merging.

## EDUCATION

PGCE | **Distinction** | Leeds Trinity University | 09/15 - 07/16

BSc (Hons) Mathematics | **1st Class** | University of Manchester | 09/12 - 07/15