

Alfie Atkinson

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Lincoln, Lincolnshire, United Kingdom

PROFESSIONAL SUMMARY

Postgraduate Software Engineer with strong proficiency in **Python** and **C++**, alongside working knowledge of **JavaScript**, **C#**, and frameworks such as **React** and **Django**. Skilled in **Agile**, **DevOps**, and **User Experience Design**, with proven expertise in **debugging** and **collaborative problem-solving** within team environments. Proficient in **version control** tools like **Git** and experienced in developing, maintaining, and optimising software solutions. Eager to contribute to innovative projects in dynamic, fast-paced settings.

Desired Roles: Software Engineer, Full-Stack Developer, Back-End Developer, Front-End Developer

EDUCATION

• University of Lincoln

Master of Science in Computer Science

September 2024 – September 2025 (Grad. April 2026)

Lincoln, UK

- **Classification:** T.B.C (Expected Distinction)

- **Activities & Societies:** Computer Science Society

- **Relevant Modules:** Advanced Software Engineering, Information Systems Security, Programming Principles

• University of Lincoln

Bachelor of Science in Computer Science

September 2021 – May 2024 (Grad. September 2024)

Lincoln, UK

- **Classification:** First Class with Honours

- **Activities & Societies:** Computer Science Society, UKIEPC Participant

- **Relevant Modules:** Advanced Programming, Algorithms and Complexity, Object-Oriented Programming, Parallel Programming, Scalable Database Systems, Team Software Engineering, User-Experience Design

PROJECTS

• Library Management System

October 2024 – January 2025

Tools: C++, Multithreading, Networking, Persistence, Catch2, CMake, Doxygen



- **Developed a console-based library management system** in C++ with CRUD operations for books, users, and transactions, leveraging Object-Oriented Programming principles.

- **Implemented multithreading capabilities** to support concurrent user operations, optimising system performance under load.

- **Designed and integrated networking capabilities** to allow remote interactions, laying the groundwork for distributed library management.

- **Incorporated data persistence mechanisms** to enable reliable storage and retrieval of library data across sessions.

- **Built a modular directory structure** with clear separation of concerns, using CMake for build automation and Doxygen for automated documentation generation.

- **Adopted Test-Driven Development (TDD)** with Catch2 to ensure robust and reliable code through comprehensive unit testing.

• Dissertation Project: Sentiment Analysis Tool

September 2023 – May 2024

Tools: Python, TensorFlow, Keras, PyQt6, Machine Learning



- **Implemented and fine-tuned deep learning models** for sentiment classification, utilising TensorFlow and Keras to achieve high accuracy and robustness in detecting sentiment from diverse textual data.

- **Optimised data pipelines** to handle and pre-process large volumes of social media data efficiently, enabling real-time sentiment analysis and reducing processing time by 30%.

- **Designed and deployed an interactive GUI using PyQt6**, allowing users to easily visualise sentiment trends, track brand sentiment over time, and customise search terms and settings for tailored insights.

- **Conducted comprehensive testing and validation** to ensure the accuracy and reliability of the sentiment analysis tool, including cross-validation of models and user feedback sessions.

SKILLS

- **Languages & Frameworks:** Python, JavaScript, C++, C#, HTML/CSS, Django, React, Node.js

- **Data Science & Machine Learning:** MySQL, NumPy, pandas, scikit-learn, TensorFlow, Keras

- **Cloud Technologies:** AWS, Azure, Google Cloud Platform

- **DevOps & Version Control:** Git, BitBucket, Docker, CI/CD, Kubernetes, SDLC

- **Project Management Methodologies:** Agile Development, Scrum, Kanban

- **Other Tools & Technologies:** Unix/Linux, LaTeX, VS Code, Jira, Unreal Engine 5, Microsoft 365, Adobe Suite

- **Other Skills:** Algorithms, Object-Oriented Programming, Test-Driven Development, User-Experience Design

EXPERIENCE

- **B-Hive Innovations** [🌐]
Field Trials Technician (Temporary)
 - **Developed and debugged software applications** for the TuberScan Venture project, improving **user-experience**, system reliability, and data accuracy in field trials by **troubleshooting** issues as they arose in a **fast-paced environment**.
 - Assisted in **research** and **development** activities, contributing to the exploration of innovative solutions for agricultural technology.
 - **Leveraged agile development, scrum, and Jira** to manage tasks and track progress, ensuring efficient collaboration and delivery within the team.
 - **Implemented version control using BitBucket**, facilitating smooth **CI/CD** of software tools in the TuberScan Venture.
 - **Dollar Jeans** [🌐]
E-Commerce Technician
 - **Maintained and updated the company website**, ensuring that the latest products and promotions were accurately displayed to customers.
 - **Managed an SQL database of 15,000+ products** and synced across platforms like eBay, Amazon, and Shopify using Veeqo.

May 2024 – September 2024
Lincoln, UK

January 2023 – March 2024
Lincoln, UK

CERTIFICATIONS

- **IBM: Full Stack Software Developer Professional Certificate**
 - **IBM: DevOps and Software Engineering Professional Certificate**
 - **Atlassian University: Jira Fundamentals Badge**

Proj. September 2025

Proj. March 2025

June 2024

AWARDS

- **University of Lincoln: The Lincoln Award**

Proj. May 2025

VOLUNTEER POSITIONS

- **Oxfam** [🌐]
Online Sales Assistant
 - **Researched products and analysed pricing** of items for sale on the Oxfam Online Shop.
 - **Listed and managed products** on the Oxfam Online Shop, accurately describing and pricing items.
 - **The Tab** [🌐]
Author
 - **Researched stories and wrote articles** for The Tab Lincoln, covering many topics from local news to student life.

October 2024 – Present
Lincoln, UK

October 2024 – Present
Lincoln, UK

ADDITIONAL INFORMATION

- **Interests:** Video Games, Tabletop Games, Reading, Drawing and Digital Art, PC Building
 - **Misc:** Willing to relocate, Open to remote work, Open to travel

REFERENCES

1. **Matteo Bermond**
Engineering Project Manager
B-Hive Innovations
Email: Available upon request
Relationship: Line Manager at B-Hive Innovations

2. **Ben Murphy**
Head of Product Development
BGB
Email: Available upon request
Relationship: Line Manager at B-Hive Innovations