Aisha Malik

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Personal profile

Enthusiastic and proactive undergraduate student seeking a summer software engineering internship. Well-versed in Python, Java, C++, JavaScript, Ruby with a passion for problem-solving. Quick learner, team player, and eager to embrace emerging technologies. Strong analytical mindset and drive for innovation.

Skills summary

Programming
- Strong foundation in programming languages such as Python, Java and Javascript, C++, Ruby, and data management systems such as SQL, MySQL, PostgreSQL, or MongoDB.
- Successfully led a project, efficiently delivering a cutting-edge software prototype using Python and Javascript.

Problem-solving
- Participated in coding competitions or hackathons, solving challenging problems under time constraints and honing problem-solving skills in a competitive environment.
- Worked on a group project to develop an AI chatbot, improving natural language processing capabilities and enhancing user interactions.

Collaboration & Teamwork
- Organised monthly workshops, catering to a group of 10 computer science students to collaborate on school projects and advance their programming language skills through guided tutorials.
- Worked on a group project to develop an AI chatbot, improving natural language processing capabilities and enhancing user interactions.

Work experience

Computer Science Tutor, University of Bristol, 2021 - Present

Assist students in learning and mastering programming languages like Python, Java, C++, JavaScript, and others. Help students understand and implement various data structures such as arrays, linked lists, stacks, queues, trees, and graphs. Encourage and guide students through coding practice, providing feedback on their code to improve efficiency and readability.

- Tutored 10 students over two years, with a 95% attendance rate.
- Successfully utilised a hybrid model combining both in-person and online teaching.
- Four students have improved their grades by 30%, achieving A's and B's for their main subjects.

Education

Bachelor of Science in Computer Science, University of Bristol, UK, 2025

Relevant courses: Data structures and algorithms, operating systems, object-oriented programming, machine learning and AI, web development, mobile app development.

Awards: Achieved a Top 5 placement at the HackMIT hackathon held in Cambridge.

Projects:
- Actively engaged in cybersecurity workshops and training, acquiring foundational knowledge in cloud security practices.
- Implemented a machine learning model for a research project, predicting customer churn and achieving a 20% reduction in attrition.
- Designed and implemented a relational database for a class project, showcasing practical skills in database management.

Technical skills

- **Programming Languages:** Python, Java, C++, JavaScript, Ruby.
- **Data Structures and Algorithms:** Various data structures (arrays, linked lists, trees, graphs, etc.) and algorithms for efficient problem-solving.
- **Database Management:** SQL (Structured Query Language), and experience with database management systems like MySQL, PostgreSQL, or MongoDB.
- **Web Development:** HTML, CSS, and JavaScript for front-end web development, as well as back-end technologies like Node.js, Django, or Flask.
- **Operating Systems:** Understanding the basics of operating systems, including Windows, macOS, and Linux, file systems, and processes.