BENJAMIN MCGREGOR

Junior Software Developer

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PERSONAL STATEMENT

Proficient programmer with experience in open-source development, First-Class Honours Computer Science degree-holder from the University of Leicester, and graduate from Northcoders' Software Development bootcamp, seeking a Junior Software Developer role.

A life-long interest in computers lead me to pursue Computer Science and Software Development, and to discover that I thoroughly enjoy building projects, writing code, and collaborating with others.

I have experience with Java, JavaScript, TypeScript, Python, and C#, and have created web applications, APIs, desktop applications, databases, and mobile applications as part of personal projects, open-source work, and formal education.

SKILLS

- **Languages:** JavaScript, TypeScript, Python, Java, Bash, C#, HTML
- **Frontend:** CSS, React, React Native, Expo, WinForms, Swing, Tkinter
- **Backend:** Express, Spring, SQLite, PostgreSQL, MySQL, JavaMail
- **Testing:** Test Driven Development (TDD), Jest, Junit, Pytest
- **Source Control:** Git, GitHub
- **Other:** Pair programming, technical communication, agile/SCRUM

PROJECTS

MuralMap/MuralMap API
Street art mapping and photo sharing Expo/React Native application written in TypeScript with a JavaScript Express API and PostgreSQL backend.

DocuBleach
PyPi-published command-line cybersecurity tool written in Python designed to detect and purge macros/dynamic content from commonly-used modern and legacy office formats.

LaserWaitingList
Laser Eye Surgery waiting list application written in Java for Kettering General Hospital, utilising JavaMail to automate emailing of patient data.

EDUCATION

University of Leicester | BSc Computer Science (First-Class Honours) | September 2020 – July 2023
- Learnt Java, Spring, Python, Bash, HTML, CSS, and C++ fundamentals
- Developed Spring APIs, websites, Android applications, and MySQL databases
- Studied Cyber Security, Operating Systems, Networking, Artificial Intelligence, Innovation Management, Computing Ethics, Software Engineering, Requirements Engineering, and Cloud Computing

Northcoders | Software Development Bootcamp | July 2024 – October 2024
- Built Express APIs, PostgreSQL databases, and React front-ends
- Learnt JavaScript, Node.js, HTML, and CSS fundamentals
- Developed Jest test suites to practice test-driven development and quality-assurance
- Regularly engaged in pair programming with numerous partners using Zoom/Slack

Brooke Weston Academy | A-Levels (Various) | September 2018 – July 2020
- Biology (A*)
- Computer Science (A)
- English Literature (B)

Functional Skills UK | Cyber Security Level 2 Certificate | March 2024 – July 2024
- Studied common and emerging cyber threats
- Explored preventative measures and effective responses for cyber attacks
- Learned about vulnerability and penetration testing
- Researched legal and ethical aspects of cyber security

Bedford College | Coding Level 2 Certificate | October 2024 - January 2025
- Studied coding design principles and the SDLC
- Explored various programming languages
- Developed communication and project management skills

Brooke Weston Academy | GCSEs (Various) | September 2018 – July 2020
- English Language/Biology/English Literature/French (9/8/A*)
- Computer Science/Chemistry/Physics/Mathematics/History (7/A)

EXPERIENCE

Software Developer | Tech Returners | February 2025 - March 2025
- Contracted by Tech Returners to develop a web-based events platform
- Developed a responsive React web application with Google sign-in and calendar integration
- Built a robust Express API and PostgreSQL backend for handling and storing event data

Open-source Developer | Anti Malware Alliance | May 2024 - Present
- Joined the Anti Malware Alliance to contribute to an open-source project
- Authored and continue to develop and test the 'DocuBleach' CLI cyber security tool
- Enhanced programming skills and engaged in collaborative development

Owner/Computer Hardware Specialist | Moses Technology | September 2018 - January 2020
- Established and operated an online store selling salvaged computer components
- Purchased, refurbished, and sold reclaimed hardware
- Ensured customer satisfaction through quality service and effective communication