

## **BEN MULLIGAN**

26 Fourth Avenue, Heaton, Newcastle upon Tyne, NE6 5YH United Kingdom  
benmulligan4@gmail.com ~ +44 7495409633

### **PROFESSIONAL SUMMARY**

I am a software developer with a First Class Honours degree in Computer Science with Industrial Placement from Newcastle University, with strong experience in full-stack and enterprise software development. I have applied artificial intelligence in both academic research and real-world industrial settings, alongside delivering software solutions within fintech and automotive manufacturing environments. I am fascinated by technical challenges and continuous learning to contribute to meaningful solutions. Fluent in English and Spanish.

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### **SOFTWARE DEVELOPER EXPERIENCE**

#### **Virgin Money (Nationwide Group), Newcastle**

##### **Technical Graduate**

**Aug 2025 – Present**

- Assisted with the merging of systems during Virgin Money's integration with Nationwide, ensuring smooth data migration and minimal service disruption.
- Designed, developed, and maintained internal software tools to automate reporting, document generation and workflow processes, improving operational efficiency across multiple business teams.
- Collaborated closely with senior developers, product owners and QA engineers to design, test, and deploy new features for both internal systems and customer-facing web applications, improving efficiency, sustainability and user experience.
- Participating in structured web development training from internal experts and Microsoft to enhance skills in building secure, enterprise-grade web applications, with a focus on best practices for scalability, maintainability, and cybersecurity.

#### **Nissan, Sunderland**

**Aug 2023 - Aug 2024**

##### **Software Developer ISD Placement**

- Lead developer of the Academy section in the Nissan Developer Web App, streamlining API management and UAT processes using Spring Boot and Angular for a robust knowledge-sharing platform.
- Managed bi-weekly Monozukuri meetings for Managers and Directors across plants globally, creating agendas, facilitating business updates, and incorporating interactive elements to enhance engagement.
- Developed Secure Web Services: Created and optimised SOAP and REST services, improving data retrieval and error handling processes.
- Contributed to Project Butterfly: Assisted in AI-driven inventory optimisation and stock loss prevention using live manufacturing data, collaborating with industry vendors on integrating embedded and edge systems.
- Mainframe Training and Development: Gained proficiency in NATURAL programming and mainframe interface, developing and promoting programs across environments.
- Enhanced Presentation Skills: Completed a presentation skills course and applied techniques to effectively lead meetings and communicate complex technical concepts.

## EDUCATION

**BSc, Computer Science with Industrial Placement, University of Newcastle 2021 - 2025**

*Achieved First Class with Honours*

**Shrewsbury School**

**2016 - 2021**

**A Levels:** Business Studies (A\*), Computer Science (A), Mathematics (A)

**i/GCSEs:** Biology (8), Chemistry (8), Physics (8), Mathematics (8), Spanish (8), English (A), English Lit. (A), Computer Science (7), Drama (7), History (B)

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## SKILLS

- **Programming Languages:** Extremely proficient in Python, Java, C, Go, NATURAL
  - **Web Development:** Angular, React, Spring Boot, Node.js, Deno Fresh, Flask, Django HTML, CSS, JavaScript, TypeScript, Markdown
  - **AI & Computer Vision:** Training and evaluation of AI and computer vision models, including image classification and accuracy testing, in both academic and industrial contexts. Experience with AI-assisted development tools and AI/ML frameworks including GitHub Copilot, OpenAI Codex, Qodo, Tabnine, TensorFlow, PyTorch, Keras and scikit-learn
  - **Databases & Systems:** SQL, key-value stores, full-stack API development, and Embedded Systems development, AWS, Docker. Excelled in university work involving data visualisation, distributed systems, AI model training and testing, system network and security
  - **Developer Tooling:** Git, CLI, Agile & Scrum methodologies, technical documentation generation. MRP software management, Grafana dashboards, Microsoft Office applications. Jupyter Notebook for data analysis, AI model development, and hyperparameter tuning
  - **Hardware Systems:** Arduino programming, PCB soldering, Raspberry Pi, hardware integration, sensor-based projects
  - **Languages:** Fluent in English and Spanish after growing up in Spain for 16 years
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## NON-TECHNICAL EXPERIENCE

**Bar Blanc, Newcastle**

**Aug 2022 - Dec 2022**

**Bar Staff Member**

- Completed daily opening and closing checklists and housekeeping responsibilities.
- Created unique and enjoyable experiences for customers with strong mixology and service skills.
- Consistently maintained impeccable standards of presentation on dining and bar floors.

**Blevins Franks Wealth Management Ltd, Marbella, Spain**

**Aug 2021 - Sep 2021**

**Summer Intern**

- Analysed client database and identified portfolios that required review.
- Prepared annual portfolio review documentation.
- Designed and created an internal staff holiday calendar, utilised company wide.
- Completed assigned tasks receiving positive feedback on organisation and time management skills.