CURRICULUM VITAE

CALLUM E P WOODFORD

ARTIFICIAL INTELLIGENCE AND INNOVATION CONSULTANT

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Hello! I'm Cal. When I'm not programming, I love reading, listening to podcasts and classical music, losing at chess and drinking posh tea.

EDUCATION 🎓

2021 - 2022

UNIVERSITY OF NOTTINGHAM
Master's degree (Msc) - Computer Science (Artificial Intelligence).
Average grade: Distinction. (Uncompleted due to medical issues (recovered)).
Hacking and Programming Society.

Modules: *Programming (Python), Systems and Networks, Databases + Interfaces + Software Design Principles (SQL), Data Modelling and Analysis, Designing Intelligent Agents, Research Project in Computer Science (Artificial Intelligence).*

2017 - 2021

UNIVERSITY OF SHEFFIELD
Bachelor's degree (BA Hons) - Architecture.
1:1 with honours.
First class average in every year.
Graduated with one of the highest grades in the cohort.
Royal Institute of British Architects Part 1 accredited.
Artificial Intelligence Society, Baseball Society.

• A course focussed on architecture and structural engineering with elements of technology, real estate and law in addition to the core architecture curriculum.
• My special interest was programming for environmental analysis using Python and Grasshopper for scripting and automation.

Modules: *Management Practice Law, Computer Aided Architectural Design, Advanced Structures and Environment, Environment and Technology, Architectural Design, Humanities, Communication, Dissertation.*
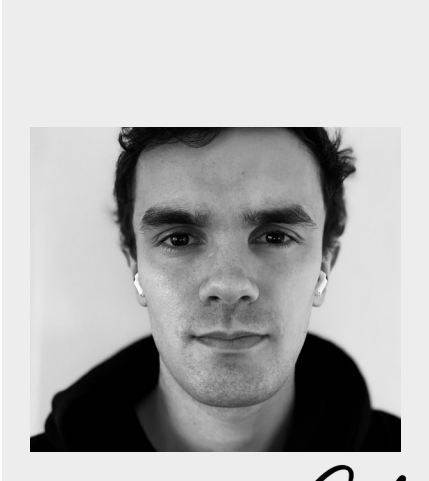
COURSES 📄

2024 - 2024

IBM
WatsonX AI, Data, AI Governance, Orchestrate and Assistant Certifications
Trained to a level 4 standard in IBM's WatsonX platform in AI, data, Assistant and AI governance. The first person in the UK to pass the required exams to achieve level 4 in all categories at the time of writing (September 2024), one of only two level 4 practitioners in the UK.

• *WatsonX AI Technical Sales Advanced (Level 3 & 4), Sales (Level 2).*
• *WatsonX Data Technical Sales Advanced (Level 3 & 4), Sales (Level 2).*
• *WatsonX Assistant Technical Sales Level 4 Advanced (Level 3 & 4), Sales (Level 3), Practitioner Advanced (Level 4).*
• *Watson X Governance Technical Sales Advanced (Level 3 & 4), Sales (Level 2).*
• *WatsonX Generative AI For Code with WatsonX Code Assistant Technical Sales (Level 2 & 3)*
• *WatsonX Orchestrate Sales (Level 2 & 3)*

2018 - 2018

ETH ZURICH
Smart Cities, Urban Analytics.
• *12 weeks researching artificial intelligence use in the development of contemporary and future smart cities such as Singapore.*

Birmingham, United Kingdom

OTHER SKILLS

Language Proficiency:
English (Native), Welsh.

Volunteering:
Birmingham and Black Country Wildlife Trust
Looking after the trees and plants in Moseley Bog and Joy's Wood, the childhood haunts of J. R. R. Tolkien.

Hobbies and Interests:
Chess, The literature of David Foster Wallace, MMA, Sci-fi, Modern Classical.

BOOKS AUTHORED

Post COVID-19 Architecture: Possible Avenues for Designing Sustainable and Healthy Environments in the Future

Auribus Teneo Lupum: Ponderings on Architecture and Urban Planning

The Bumblebee's Daytime Dreams
A book written for (and about) my niece, Imogen.

AWARDS

Institute of Engineering and Technology Digital Photographer of the Year - Winner
Architectural VR work exhibited at the Science Museum, South Kensington alongside the work of Dame Zaha Hadid as part of Tomorrow's Engineers Week and thereafter at IET London, Savoy Place. Featured by a number of newspapers/media outlets.

THE ENGINEERING CLUB - ENGINEERING SKETCHING PRIZE - WINNER
Hyper-insulated closed loop biomimetic structural systems based on the biological adaptations of the Namibian fog-basking beetle.

PRINCIPAL'S OUTSTANDING ACHIEVEMENT AWARD
An award presented to me for exceptionally high grades in college.

SILVER AWARD
British Biology Olympiad.

NATIONAL 1ST PLACE DUAL-KAYAK, NATIONAL 3RD PLACE BELLBOAT
Awarded by the Welsh Canoeing Association.

CALLUM E P WOODFORD

British citizen, open to on-site, hybrid or remote roles (on-site preferred).

EXPERIENCE

Jul 2024 - Present

SCC
Artificial Intelligence and Innovation Consultant
Birmingham | Hybrid.

• Developed an AI Content search system for the largest magazine archive in the world. (Python/AWS)
• Developed an AI-powered security intelligence assistant with a voice interface. (Python, JS, Flask)
• The first hire in SCC's new AI and Innovation department.
• Gave a speech at the Artificial Intelligence Symposium 2024 as part of Birmingham Tech Week.
• Consulting with clients and partners around the UK at both a B2B and B2C level whilst architecting AI solutions as a team. Areas covered have included the healthcare, academia and quantum computing sectors.
• Trained to a level 4 standard in IBM's WatsonX platform in AI, data, Assistant and AI governance. The first person in the UK to pass the required exams to achieve level 4 in all attainable categories at the time of writing (September 2024), one of only two level 4 practitioners in the UK.
• Process mining in Celonis.
• SCC is run by Sir Peter Rigby and is the largest private IT company in Europe as of 2023.

Feb 2024 - Jul 2024

Artificial Intelligence Pre-sales Executive
Birmingham | Hybrid.

• Liaising with clients, attending business meetings and presenting solutions in a pre-sales capacity.
• Programming an AI project for internal use to drive efficiency at the company.
• Represented the organisation at an IBM hackathon and The AI Summit, London.

Nov 2023 - Jan 2024

BRUM.AI
React Developer
Temporary (working on their Next.js website).
Working on the revamp of the Brum.ai website using React, Next.js and Tailwind. In this process we are working in a team of six, using AGILE methodologies and team-based technologies such as Trello for tickets and various ideation techniques such as Disney ideation. We had two weekly meetings with stakeholders, for which I have personally led two of the meetings.

ACCREDITATIONS

Architects Registration Board:
Part 1 Architect

Royal Institute of British Architects:
Part 1 Accreditation

OTHER PROJECTS

Open source Anki Decks:
I maintain Anki spaced repetition software decks on GitHub and the Anki website to help people learn programming.

Gaza Citizen Journalism Repository:
A repository to connect people with citizen journalists on the ground in Gaza.

REFERENCES

Atanas Kozarev
Platform Engineer at Capgemini - BRUM.AI Organiser - 2x AWS Certified - Terraform
Contact details available upon request.

Nathan Lloyd
BRUM.AI Organiser, PhD, Computer Science candidate @ Ontario Tech University
Contact details available upon request.