

Niamh Brockbank

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PROFILE

Former structural engineer transitioning to software engineering with focus on full-stack web-development.

WORK EXPERIENCE

Software Engineering Scholar

Academy

June - Oct 2022

- Developed knowledge of software development in immersive training program with focus on full-stack web development
- Collaborated with diverse team
- Delivered project to improve employee experience
- Led planning and retrospective meetings

Graduate Structural Engineer

Momentum Engineers

Feb - Dec 2021

- Communicated directly with clients to ascertain their needs and create tailored deliverables.
- Delivered highly detailed designs on fast-paced projects in collaboration with cross-disciplinary teams
- Built and analysed analytical models for complex systems

Undergraduate Researcher

University of Bath

Jun - Sept 2019

- Communicated my key research findings using Python to visualise three-dimensional data.
- Collaborated with international industry experts to obtain relevant data and guidance.
- Planned and carried out methodical testing and analysis regime.

Trainee Civil Engineer

Mott MacDonald

July 2017 - July 2018

- Delivered realistic tender estimates, from limited data, in a fast-paced environment as part of an interdisciplinary design team.
- Communicated with project teams, including updates about hazards and ground conditions; through emails, verbal discussion at design meetings, hazard drawings, and design reports.

COMPUTATIONAL SKILLS

Front-End JavaScript, TypeScript, React, CSS, PostgreSQL, Express, Node.js, Python, Plotly, and R

Back-End PostgreSQL, Express, Node.js

EDUCATION HISTORY

MEng (Hons) Civil Engineering

University of Bath

Sept 2015 - Jun 2020

- First-class honours degree (72%)
- Key Modules: Computer Applications, Mathematics, Advanced Research Dissertation, Risk and Uncertainty, and Public Health
- Dissertation - "Evaluating the effect of aeration strategies on source water as a low-carbon alternative to traditional treatment."

Other Qualifications

De Lisle College

Sept 2011 - Jun 2015

- A2 Levels A*AA in Maths, Physics and Art
- AS Level B in English Literature
- GCSEs 8 A*s 3As, A*s in subjects including Maths, English, Science, and Art

VOLUNTEERING

Student Ambassador

University of Bath

Nov 2018 - Mar 2019

- Presented design brief to a large group of incoming students.
- Supervised a group of students in the design task. Encouraged contributions and provided guidance.