

Connor McQuillan

Senior Software Engineer

Personal information

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Skills

- Leadership and teamwork
- Mentoring
- Consulting
- Agile methodologies
- Excellent written and verbal communication
- User-centred design
- Data driven decision making

Technical skills

- Ship to learn
- Fail fast, learn quickly
- Continuous integration, deployment and delivery
- Object oriented programming
- Relational databases
- Test driven development
- Restful API design
- Version control

Programming

- Ruby on Rails
- Hotwire
- ViewComponent
- HTML, Javascript, CSS
- Python (Django, NumPy, SciPy)
- Linux
- Docker
- GitHub Actions

Interests

- Travelling
- Spending time with friends and family
- Cooking
- Football
- Formula 1

Motivated, diligent, full stack engineer and consultant. Experienced Ruby developer comfortable delivering maintainable Ruby on Rails applications at scale across the public and private sectors. Proficient with front end technologies and comfortable working across the stack in a DevOps culture. Keen to help transform organisations by embedding modern engineering practices and advocating for agile methodologies. Passionate about knowledge sharing, mentoring and building an inclusive culture of improvement. Proactive engineer seeking to help drive projects and teams forwards.

Experience

Senior Software Engineer (contract)

Ministry of Justice, 08/2022 - 03/2023

- Led efforts that moved the team toward a more maintainable approach to product development.
- Responsible for addressing flaky tests and took steps to improve test suite reliability.
- Introduced use of GOV.UK Components to improve accessibility across the board.

Senior Software Engineer

thoughtbot, 06/2022 - 07/2022

- Committed to improving mentoring best practices across the organisation.
- Championed modern development practices and processes with clients, utilising effective communication and systematic problem solving skills.

Software Engineer

thoughtbot, 07/2021 - 05/2022

- Proponent of test-driven development and agile methodologies.
- Full stack software engineer and consultant at this expert design and development consultancy.
- Worked across several client projects —helping them to build out new services and features at scale.
- Built CI/CD pipelines using modern deployment approaches.
- Worked with applications in the cloud configured with Infrastructure as code.

Software Engineer

Department for Education, 01/2020 - 06/2021

- Full stack software engineer on the award-winning Teaching Vacancies team.
- Advocate for continuous improvement of the codebase and wider ways of agile working within the team.
- Integral member of the product team, instrumental in driving the service forwards through collaboration and ideation and development of key features.
- Frequent collaborator to open source projects in the wider DfE Digital community.
- Managed and mentored more junior developers in order to help them progress.

Engineering Consultant

University of Southampton, 06/2018 - 08/2018

- Developed computational fluid dynamics (CFD) software for British Swimming.

Aerodynamic Software Engineer

Scuderia AlphaTauri F1 Team, 07/2016 - 08/2017

- Developed an extensive REST API using Python and Django, and a frontend JavaScript client.
- Designed and developed novel solutions to solve complex engineering problems in a fast paced environment —directly improving the efficiency of CFD analysis in this Formula 1 team.

Education

University of Southampton, 10/2014 - 07/2019

MEng Aeronautics & Astronautics - Aerodynamics (First class honours)

Leventhorpe School, 09/2006 - 07/2013

A Level - Mathematics (A*), Physics (A*), Further Mathematics (A), Chemistry (A)

AS Level - English Literature (A), Business Studies (A)

GCSE - 11 A*, 1 A (including Mathematics, English)