

# Sam Jackman

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## PROFILE

Vancouver based structural engineer with an aptitude for using computational approaches in structural design. Currently pivoting into tech to play a part in developing software the future AEC industry will be dependent on. A drive to learn software through personal projects has been complimented by a focus on using automation to solve real-world problems in my professional work.

## PROFESSIONAL EXPERIENCE

### Structural Engineer | ASPECT Structural Engineers

Oct 2024 - Present

- Created digital workflows to automate structural analysis, design, and documentation, integrating APIs and cross-software interfaces in mixed visual and text-based scripting environments.
- Learnt complex new seismic design concepts whilst adapting to North American design codes. Applied this knowledge to numerous small projects whilst adhering to deadlines and quality control processes.

### Structural Engineer | BDP

Sep 2021 – Sep 2024

- Coordinated with architects and other design disciplines to produce structural designs which met the project brief whilst avoiding unnecessary cost or complexity.
- Automated data processing and visualisation of structural analysis results using Python.

## PERSONAL PROJECTS

- iOS Fitness App (Swift, Firebase): an MVP social media style app with user authentication, a simple frontend, and social elements such as following/unfollowing and workout sharing. Implemented a cloud-based backend using Firebase Authentication, Firestore (No SQL DB) and Python Cloud Functions.
- 'EasyFX' Web App (Flask, HTML/JS): a simple currency conversion app with real-time FX rates using a Flask backend and HTML/JS frontend deployed on Heroku.
- 'FollowMe!' Web App (Flask, HTML/JS, Firebase): a feed type app for following other users, with code and structures recycled and adapted from my iOS app using Cursor.
- Python Automation: simple personal productivity tools, including a Python web scraper used to book tennis courts in busy locations, and another to track and visualise personal investments.

## EDUCATION

### Master of Civil Engineering with First Class Honours, University of Bristol

2017 - 2021

- Awarded the *Design Project Award*, *Francis Memorial Prize*, and *Nash Memorial Prize* for top performance in group and individual projects.

## TECHNICAL SKILLS

- Languages & frameworks: proficient in Python, Swift, Firebase, and with typical AEC computational tools. Experience with web app development using JS/HTML and Flask.
- Development practices: knowledge of OOP, data structures, architectural principles, version control with Git, cloud deployment, and LLM-assisted coding.

## INTERESTS

Sports and outdoors enthusiast. Primarily moved to Vancouver to capitalise on nearby skiing but now captivated by the limitless hiking, biking, and other activities available locally.

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