

Megan Bates | Creative Programmer

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Profile

I am a unique candidate who has come to software development from physics via programming for fine art. I've worked in energy, education, accessibility and arts, but my first priority in my career is always the ethics and impact of the project I'm working on.

I'm a fast independent learner, though I have a particular enthusiasm for programming teamwork, and I love pairing to both learn and teach. I have experience training multiple people, and consolidating various coding philosophies from different senior developers. Having someone show me how to do something cool or just more quickly is one of my favourite things about working in a team. Nothing, though, is better than supporting teammates on the sometimes emotional challenge of overcoming tricky problems to push past barriers that seem unsolvable.

Languages

python, SQL, shell,
javascript, C++, C#

Tools

AWS, Git,
Azure,
Docker,
Django,
Postman, QGIS,
Blender, Rhino, Unity,
Adobe Creative Suite

Work Experience

2021 - ongoing Backend python engineer, Perlego:

- Processing, improving data quality and reporting on our catalogue of around 1 million textbooks.
- Redesigning and developing legacy code towards more flexible API endpoints.
- Unit, Integration and E2E testing design and implementation.
- Dockerizing environments across projects with a range of complexity.
- Writing, debugging and maintaining infrastructure for CI/CD pipelines across multiple services with different requirements.
- Lowering AWS costs: processing efficiently, storing less files, identifying duplicates, deleting legacy databases and storage buckets.
- Chasing bugs and improving logging quality through our pipelines via Sentry, Sonar, Athena and Cloudwatch.

2019 - 2021 Fullstack software engineer, Buro Happold:

- Building interactive web dashboards for client customized data analysis and presentation, eg. <https://dataviz.esc-portal.org.uk/>
- Maintaining and developing an Azure hosted python backend: A Django-based data store to supply IOT data sources eg. live temperature readings, people density, to our frontend.
- Developing a C++ and C# based Rhino plugin for people movement analysis.

2018 - 2019 Programming teaching assistant, Goldsmiths:

Teaching C++, C#, Java, Javascript, HTML and CSS for Computer Science, Games Programming, and Digital Arts courses.

2013-2017 Graphic designer, Oxford University:

Producing web content for Estates and Accessibility departments.

Studies

2017 - 2018

MA Computational Arts Distinction, Goldsmiths.

2013 - 2016

Physics BSc 2:1, University College London.