Megan Bates | Creative Programmer

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Profile

I am a unique candidate with experience across clients in energy, education, sustainability, arts, charity and telecoms. My combined scientific and computational arts background enables me to provide data analysis and software which is both water-tight and beautiful.

I currently work as a full-stack software developer in Data & Analytics at Buro Happold, a small and fast-paced team which delivers interactive data analysis dashboards. Much of the work I have delivered has been javascript web development, including map API and 3D modelled data presentation. I have also been responsible for backend data processing from both live and static sources, and have managed databases and cleaned client data under tight time constraints using both python and SQL.

I understand how to anticipate a client's expectations and present data to beautifully express complex information, and also have broad experience of the whole web development pipeline, having worked to build and manage scrum sprints, organised code reviews, and solved complex git conflicts. I have a particular enthusiasm for programming teamwork, and I love helping to sort and organise git branches and sprint tickets, and have a good sense of how to estimate the time I need for development. I'm also an extremely fast and independent learner, and comforable both quickly finding and implementing tools from others, and buidling specific solutions myself from the ground up.

Languages
Python, SQL
Javascript
HTML, CSS
C, C++, C#, Java

Tools
Git, Polymer, Ipython, 3js, Azure, Postgres, Django, Bash, Google maps API, QGIS, Blender, Rhino, Docker, Heidi, SASS, Unity, Postman, OpenGL, Jira

Work Experience

2019 – ongoing
Software development engineer at Buro Happold, building interactive web dashboards in javascript and python, and a C++ and C# based Rhino plugin for people movement analysis.

2018 – 2019
Programming teacher at Goldsmiths, teaching C++, C#, Java, Javascript, HTML and CSS for Computer Science, Games Programming, and Digital Arts courses.

2013-2017
Graphic designer at Oxford University, producing web content for estates and accessibility departments.

Projects

SmartViz
https://www.smart-viz.com/stage//feature/styling/
Energy Systems Catapult
https://dataviz.esc-portal.org.uk/
Eyetracker
An opensource eye-tracking software project using machine learning to detect eyes and computer vision to correlate pupil position.

Studies

2017 – 2018
MA Computational Arts Distinction, Goldsmiths.
2013 – 2016
Physics BSc 2:1, University College London.

2010-2012
A-levels 4 x A* Maths, Further Maths, Physics, Art.
2008-2010
GCSES 7 A*s, 3 As.