Alexia McGregor

Software Developer, UK (Remote)

Employment

Software developer, OpenMoney, October 2019 - present

- Spent the better part of the past 2 years contributing to the development, both front and back end, of a new mortgages product from the beginning stages of planning to its release and continued improvement.

- Researched, formulated, implemented and documented the mathematical algorithm which is the USP of our mortgages product.

- Have been mentoring an apprentice who joined us this quarter. It's been a great experience having her on the team, and while I enjoy teaching her about clean code, the importance of testing, SOLID, best practises and good design patterns, I also enjoy listening to her ideas on how she would approach tasks; the 'correct' way is important to learn about and have at your disposal, but is not always the most suitable for the job and I enjoy her insightful questions.

- Took the initiative to refactor a significant number of tests which were used on a number of forms in not only our team's product, but several other products that OpenMoney develops. This slimmed our codebase down considerably and the reusable tests now live in a shared library with other shared components, which my team and I maintain, and are used company wide.

- Worked as the sole developer for our company on our brochure site to add any custom features needed that weren't possible with the website builder our designers use to create and manage the site.

Freelance web developer, Intermittently 2018 - 2019

- Among the different freelance jobs I picked up, one was a particularly interesting piece of work for a small start up called Crover. They wanted a heatmap creating to represent the temperatures within a silo - a big tower used on a farm to store grain. They asked for a static 2D image of a silo to be displayed behind the 3D heatmap, however I felt that looked visually confusing since you could rotate the heatmap, but the image wouldn't rotate. I did some investigation and proposed a new solution to the CEO that he was very happy with; I used mathematical equations to graph a silo and programmed the graph to listen to the heatmap so that the rotation would be in sync and the user would have a much clearer 3D visual display. There's a demonstration of it on this page of their website: *https://www.crover.tech/crovers-benefits*

Skills used on a daily basis

React | TypeScript | Sass | C# | .Net | REST APIs | SQL | Jest | Azure | Git

Education

Informatics MSc,
University of Edinburgh, 2017 - 2018

Mathematics BSc, First Class,
Newcastle University, 2013 - 2016