

Professional Experience

2022- • Klima.Metrix GmbH - Senior Software Engineer

Joined Klima.Metrix: a carbon accounting startup. Introduced trunk-based, test-driven approach and reduced deployment frequency to <1 week. Refactored legacy calculation code with BDD-style tests. Deprecated MongoDB backend service to reduce technical debt and to take advantage of the existing relational DB model - created custom tooling to make this easier. OWASP top 10-based security audit + fixes.

2021 • Magentasoft Ltd - Consultancy

Contract work with YLD and Uphold 50/50 consulting dev role Microservice architecture

2017-2020 • Co-op Digital – Senior Software Engineer

Joined the Digital Engineering department within the HQ of The Co-operative Group in 2017. Cross-functional, agile teams. Moved into senior role, mentoring engineers and presenting ideas at the monthly all-teams sessions. Leant towards back-end API development: championed refactoring and local architectural design of complex REST/SOAP integrations as well as being a voice for security across Digital. Largely Python, JavaScript, SQL with Django and React often providing development frameworks. I were also lucky enough to participate in Kevin Rutherford's XP Surgery as well as Lauren Currie's Upfront workshop. These are software craftsmanship and public speaking workshops respectively.

2016-2017 • Beautiful Destinations – Software Engineer

Towards the end of 2016 I were hired by a Shoreditch based startup working in the travel and tourism marketing industry. Working alongside some very experienced engineers, I were responsible for making machine learning code production ready (testing, QA, refactoring); setting up build/test/deploy pipelines; containerizing releases with Docker etc. Learnt Haskell/GHCJS as this was used heavily for enforcing type-safety across the front-add-back end. Haskell and FP remain influential and encouraged me to learn Haskell proper as well as study Category Theory in my spare time.

2016 • Liberal Democrats – Contract Developer

In 2016 I were contracted to build a polling station finder for the UK Brexit referendum as well as custom integration with their existing website. It utilized PostGIS geospatial extension for postgres DB engine with data supplied partially by DemocracyClub. This was a very fast paced project with quick turnaround.

Further experience available upon request.

Contributions

2021 • Linux Kernel - ALSA subsystem

Supporting Pioneer audio mixers within ALSA: the Linux audio subsystem. Reverse engineered the DJM-750 vendor specific audio interface with OpenVizsla/ViewSB and collaborated with other users to expand support for other models.

2021 • K9-Mail

Implementing IETF RFC6186: 'Use of SRV Records for Locating Email Submission/Access Services' as part of an improved setup experience.