PIERRE MARSHALL

EXPERIENCE

Developer for Freifunk

Sponsored by Google Summer of Code.

- Wrote a Rust utility for transforming and loading a large archive of JSON files into a MongoDB database. I also set up a GitHub workflow to check and test the code.
- Wrote a GraphQL interface with Node.js to resolve calls to MongoDB and make community data publicly available.
- Data visualisation with d3.js.

May 2024–Present

Database administrator for Leicester City Council

- Wrote SQL scripts for database reports running on Microsoft SQL Server.
- Wrote Python scripts to connect the ebs database API with the Google Workspace API. This included system administration of a server running Debian GNU/Linux.
- Managed Open Data releases using Swagger/OpenAPI. GDPR risk assessments.

Mar. 2022–Sept. 2023

EDUCATION

IMPA at Tsinghua University

Web scraping in Python and parsing HTML to extract information about political parties.

Sept. 2023–May 2024

Postgraduate research at Leicester University

Research on rural gentrification, I also taught on an introduction to geography module.

March 2020–March 2022

MSc Geography at Leicester University

Research design, methodology, and statistics. Trained to use SPSS statistical analysis software, and its open source counterpart, JASP.

Sept. 2018–March 2020

CONTACT

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ONLINE

https://github.com/extua
https://www.extua.pw

SKILLS

CODING

Rust Python JavaScript

DATABASES

SQL MongoDB GraphQL

MARKUP

Typst LaTeX HTML/CSS

INFRASTRUCTURE

Server administration
AWS Cloudfront
GNU + Linux
GitHub Actions CI/CD

CERTIFICATIONS

Azure Database Administrator Associate

AWS Developer Associate

GitHub Foundations

PERSONAL PROJECTS

nth

Package for formatting ordinal numbers in Typst, a Rust-based typesetting system.

Sept. 2023. Released v1.0.1 in June 2024.

newposte-rs

Small Rust tool for generating YAML front matter for use with the Jekyll site generator.

Nov. 2023.

Unicode feed symbol

Proposal to encode the Universal Feed Symbol in Unicode 15.1.

10th Nov. 2022

leicester.bike

Javascript web app which showed the nearest rental bike station in Leicester and number of bikes available. Hosted on AWS S3 + Cloudfront. *Now offline.*

July 2022-2023