

Fergus Beckerleg

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TECHNICAL SKILLS

Languages: Java (Android), Python, R, XML, SQL (MySQL)
Frameworks: Spring boot, JPA, Hibernate 2, Spring Boot Test
Developer Tools: Git, Docker, Amazon Web Services, VS Code, IntelliJ

PROJECTS

- WaterAPI** | *Java, Spring, Rest-API, JPA + Hibernate2, MySql, Docker, Spring Boot Test* Feb 2023
- **Spring RestAPI** for uploading CSVs of meter accounts and readings to a **Dockerised MySQL** database
 - Meter readings are tied to customer accounts via a many to one relationship, and duplicate entries are prevented
 - The code is testable, with full **Spring Boot Tests**
- MyQuizApp** | *Java, Android, Spring, Rest-API, MySql, Docker* Sept 2016 – Present
- Developed an **Android App** to ask a user a quiz for my A-level Computer Science project
 - The app used **Java** and **XML Layouts**, with a local **MySql** Database
 - After a long hiatus i have recently continued development of the app
 - The app now features a **Spring** back-end, consisting of a **Rest-API** and **Dockerised MySQL** database
- Dispersal Research Placement** | *R, GGPlot, Cellular Automata* Jan 2020 – April 2020
- Developed a **cellular automata model** to investigate dispersal and population growth of societies
 - Implemented a logistic growth model
 - Used the **GGPlot** package to create a range of **Visualisations**.

EXPERIENCE

- Teacher** Nov 2022 – Present
Gateshead College *Gateshead*
- While participating in a **DevOps** boot-camp, i was recruited to join the college team.
 - I have delivered units on **Python** and **DevOps** concepts.
- Program Officer** Aug. 2021 – July 2022
Altitude Foundation *Newcastle*
- A North East charity, Aiming to teach disadvantaged young people (14-18) about coding and tech careers
 - **Deliver** and **develop** regular teaching program for schools.
 - **Plan, organise**, and **deliver** extracurricular tech events and visits.

TRANSFERABLE SKILLS & EXPERIENCE

- Archaeological Officer** June 2019 – Jan 2020
Thames Valley Archaeological Services *Taunton*
- Engaged in archaeological excavations on a range of sites
 - Provided experience working as a part of a **Large Team** to a **Strict Process**, and with a **Tight Deadline**
 - As well as in utilising a range of data & methods in **Complex Problem Solving**
- Summer Dig, Sisters Wiggold** | *Surveying, GIS, Excavation*
- For a number of years i have chosen to attend an extracurricular summer excavation
 - I was selected for the much smaller, invite only 2020 excavation
 - In a pair I created a **Digital Survey** of the $\approx 1800m^2$ site using professional survey equipment
 - This required **Technical Skills**, **GIS Skills**, as well as excellent **Teamwork & Communication**
- Grampus Excavation** | *Excavation* April 2019
- Applied and was selected for a **Competitive International Placement** in Bulgaria
 - Spent a month excavating a \approx 4th C. Roman necropolis(cemetery)

EDUCATION

- Gateshead College**
DevOps Boot-camp *Oct. 2022 – Nov 2022*
- Bournemouth University**
BSc Archaeology *Sept. 2017 – May 2020*