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

EXPERIENCE

Teacher   Nov 2022 – Present
Gateshead College   *Gateshead*
- After standing out on a **DevOps** boot-camp, i was recruited to join the college as a teacher
- 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.

Archaeological Officer   June 2019 – Jan 2020
Thames Valley Archaeological Services   *Taunton*
- Engaged in excavations on a range of sites utilising a range of methods in **Complex Problem Solving**
- Provided experience working as a part of a **Large Team** to a **Strict Process**, and with a **Tight Deadline**

PROJECTS

Dispersal Research Placement | *R, GGPlot, Cellular Automata*   Jan 2020 – April 2020
- Developed a **cellular automata model**to investigate dispersal and population growth of societies
- I modeled a population with a logistic growth model, expanding into an uncolonised environment.
- The goal was to compare rates of expansion of K or R optimised models to the archaeological record
- Used the **GGPlot** package to create a range of **Visualisations**.

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
- I have recently continued development of the app, moving to a web server and **Dockerised MySQL** database
- The app now features a **Spring** back-end, consisting of a **Rest-API**

OTHER EXPERIENCE

Summer Dig, Sisters Wiggold | *Surveying, GIS, Excavation*
- For a number of years i have chosen to attended 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
- Attended a **Competitive International Placement** in Bulgaria excavating an $\approx$ 4th C. Roman Cemetery

EDUCATION

Gateshead College
DevOps Boot-camp   *Oct. 2022 – Nov 2022*

Bournemouth University
BSc Archaeology   *Sept. 2017 – May 2020*