James Page

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WORK EXPERIENCE

Software Engineer Program Intern – JP Morgan Chase **June – August 2022**

- Member of TRAIN Engineering team – working on large scale implementations of firm wide AI/ML problems.
- Worked on projects using Spark, Python implemented across combination of AWS and internal hosting servers.

Software Developer Intern – Cognitran **July – September 2021**

- Took charge in investigating and designing a new feature to allow users to query for ids based on a set of features in a short time across an 8+ million vehicle dataset.
- Designed an AWS Lambda function to update Elasticsearch index with entries from a large scale DynamoDB system.
- Added query handling functionality to existing in development service allowing for querying via REST endpoints.

Technology Early Insight – JP Morgan Chase **April 2021**

- Developed REST API endpoints using python.
- Modelled a large dataset using TensorFlow in python to predict fraudulent transactions.

Software Engineering Work Experience – ISIS Neutron and Muon Source **July 2018**

- Implemented a web interface for monitoring source data with python flask.
- Worked with an Apache Kafka cluster data source.

EDUCATION

University of Warwick **September 2019 - Present**

MEng Computer Science

St Bartholomew's School **July 2019**

A-Levels:

- Mathematics – A*
- Further Mathematics - A
- Physics – A
- Computer Science – A

SKILLS & PROJECTS

Skills:

- **Java** – lots of experience through university work and external projects.
- **Python** – experience writing a large range of projects, from algorithm problems and web backends in Django and flask.
- **C & C++** – basic experience and understanding from small university projects
- **SQL** – a variety of SQL experience in working on past projects that include databases, experience with PostgreSQL and MySQL.

Projects:

- **Research Project – Efficient Allocation of Renewable Energy Sources Under Uncertainty Across the UK**
  - Combination of Regression Model and Genetic Algorithm optimization techniques to model weather effects of wind power and find an optimal set of locations across the UK to maximise efficiency.*
- **University Project – Live feedback submission system**
  - Angular, Django Rest, PostgreSQL Stack.
  - Feedback dashboard, with message filtering and text analysis with TextBlob.
- **Upcoming Group Project - Humanisation of music using a sentiment and semantics analysis approach**

**Full paper and more details available at https://james-a-page.github.io/RenewableOptimisation.pdf*