

Faizaan Sakib

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WORK EXPERIENCE

Yoti, London

Software Engineer Intern

July 2019 — September 2019

- Dynamically involved in the R&D team for building a blockchain written in Go, with the use of SQLite and Protobuf.
- Designed and implemented the ledger, one of the core features of the blockchain, ensuring safe and atomic transactions.
- Responsible for creating a network broadcaster, message encryption, unit testing, among other features.

EDUCATION

MEng Computer Science : 1st obtained at 75%

University of Bristol

September 2016 — June 2020

A-Levels: Maths (A*), Further Maths (A), Computing (A), Physics (B), Economics (A at AS Level)

Royal Grammar School High Wycombe

September 2013 — June 2015

GCSEs : 12 A*s

Heckmondwike Grammar School

September 2009 — July 2013

UNIVERSITY PROJECTS

Great Ape Behaviour Recognition using Deep Learning — Final year thesis

Created a ResNet Convolutional Neural Network + LSTM-based two-stream deep learning model in PyTorch to classify the behaviour of wild chimpanzees and gorillas in video footage. Achieved a Top1 accuracy of 73.5% albeit a sub-optimal dataset. Won the prize for the best final year computer vision project. Its findings were published and presented at a workshop at ICPR 2020.

Cloud Proof-of-Work System

Built a system written in Python employing AWS infrastructure (including EC2, SQS, S3, Lambda) to perform proof-of-work across multiple VM instances in parallel. Utilised performance metrics logged on CloudWatch to perform efficient horizontal scaling.

Covidology

Led a team of software and data engineers to analyse the geographical sentiment distribution for COVID-19 in the UK. In charge of curating and pre-processing a dataset for sentiment extraction which included news articles, market prices and ~24000 tweets. Also worked on producing a dashboard with Django to display our findings with interactive visualisations using Plotly.js.

puppr

A web gallery for pictures of dogs, made with Vue.js to create a responsive and lightweight single-page application. Produced a RESTful API with Express.js for database querying and user authorisation with JSON web tokens.

Dartboard Detector

Wrote the Hough Transform from scratch in C++ to perform edge detection of circles and lines in order to detect dartboards within a given image. Used in conjunction with the Viola Jones algorithm, it achieved a 91% true positive rate.

OTHER PROJECTS

faizaan.tech

Built a portfolio and blog website using the React-based Gatsby.js framework along with pure HTML and CSS styling. Utilises GraphQL querying to fetch data and blog posts from a CMS to serve to the site in a decoupled fashion.

Triffids

A community-driven park exploration app which won the Bristol City Council & BBC Data Jam. Responsible for implementing the backend with Python, Flask and SQLite. Set up an API for fetching data from Open Data Bristol.

SKILLS

Languages: Python, Go, C++, JavaScript, HTML, CSS

Technologies: AWS, Docker, Django, FastAPI, Flask, Git, GraphQL, Neo4J, Pandas, PyTest, PyTorch, React, SQLite, Vue.js + more

EXTRA-CURRICULAR

- Self-taught electronic music producer and DJ, with a keen interest in synthesisers.
- In my spare time I also enjoy going to the gym, playing table tennis and skateboarding.
- Bristol PLUS award: a recognition of extra-curricular activities and employability workshops attended during my degree.