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.
- 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 things.

EDUCATION

MEng Computer Science : 1st obtained at 75%

University of Bristol   September 2016 — June 2020

A-Levels

Royal Grammar School High Wycombe   September 2013 — June 2015

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

GCSEs

Heckmondwike Grammar School   September 2009 — July 2013

*12 A*s*

UNIVERSITY PROJECTS

Great Ape Behaviour Recognition (Final year thesis)

Created a ResNet + LSTM-based two-stream deep convolutional neural network in order to classify the behaviour of chimpanzees and gorillas in jungle camera video footage. Achieved an accuracy of 75% albeit a sub-optimal dataset.

Cloud Proof-of-Work System

Built a system employing AWS infrastructure (including EC2, SQS, S3, Lambda) to find the golden nonce of a block of data across multiple VM instances in parallel. Utilised performance metrics logged on CloudWatch while leveraging the central limit theorem for efficient horizontal scaling.

Jack's Room VR

Lead developer of a team of 7 to create an immersive multiplayer fighting VR game, developed using Unity in C#.

puppr

A web gallery for pictures of dogs, made with Vue.js to create a responsive and lightweight single-page application. Also produced a standardised API interface 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. Achieved a 91% true positive rate.

OTHER PROJECTS

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.

Reusable Cups

A system for assigning coffee cups to users using QR codes in an effort to reduce waste, created for Start Hack 2019.

SKILLS

Languages: Python, C, C++, C#, Go, JavaScript

Technologies: AWS, Firebase, Flask, Git, Jupyter, NumPy, OpenCV, Pandas, PyTorch, SQLite, TensorBoard, Vue.js

EXTRA-CURRICULAR

- Self-taught electronic music producer and DJ
- Regularly go to the gym and an avid table-tennis player
- Bristol PLUS award: a recognition of extra-curricular activities and employability workshops attended during my degree
- Computer Science Society member, frequently participating in hosted events and attending guest lectures