

# Darren Gitagama

+44 7462 935939 | gichurud02@gmail.com

## EDUCATION

**University of Exeter** - *MSci Computer Science (Expected 1st Class)*

*Sep. 2021 – 2025*

- **Modules:** Software Development, Database Theory and Design, Network and Computer Security, Enterprise Computing, Learning From Data

## EXPERIENCE

**Solutions Architect Intern, HSBC**

*June 2024 – Aug 2024*

- Developed a visualisation tool using Python and Flask to monitor the health of HSBC group datacentre network response times, using data sourced from IBM SevOne API.
- Collaborated to develop a "Net-zero at design framework," guiding solution design towards more carbon-conscious choices by considering the impact of different workloads and hosting profiles.
- Researched and documented data centre connectivity patterns within core networks.
- Collaborated with senior colleagues to develop a superstack governance framework, enhancing visibility for stakeholders during horizon planning.
- Conducted a comprehensive comparative analysis of Digital Experience Monitoring solutions (DEM), informing the user experience monitoring strategy.

**Consumer Business Architect Intern, Lloyds Banking Group**

*June 2023 – Aug 2023*

- Developed a Business Capability Model (BCM), modelling business unit dependencies and relationships, contributing to enhanced strategic planning and execution.
- Developed and refined service catalogues, analysing alignment of IT services with business goals.

**Python Teacher, University of Exeter Entrepreneurship Society**

*Sep. 2022 – Dec. 2022*

- Led Python demonstrations and discussions, encouraging student engagement and participation in workshops.
- Responsible for the learning of 25 students, providing additional help where students were struggling, thereby improving student programming confidence and understanding, resulting in a pass rate of 87%.
- Handled administrative responsibilities such as communicating with associates, collecting, and organizing resources.

## PROJECTS

**StepUp | React, Firebase**

- Collaborated in the development of a full-stack activity tracking web application, aiming to promote sustainable behaviours on campus.
- Users can perform third-party authentication, link with Strava API, automatically log campus walking activities, follow friends, compete on leaderboards, grow virtual gardens, and engage with a sustainable community.
- Implemented a CI/CD pipeline with GitHub Actions to automate testing and deployment.

**Automated Shoeprint Web scraper and Classifier | Python, MongoDB, TensorFlow, OpenCV**

- Conducted a comprehensive study to investigate the impact of various image descriptors on classifier performance.
- Created a pipeline to automate the collection, preprocessing, and storage of over 1,000 shoe sole images using Selenium and MongoDB.
- Enhanced classification accuracy by applying and fusing texture analysis and key point detection techniques to form salient descriptors.

**Trading Bot | Python**

- Implemented a Relative Strength Index Trading strategy for trading selected stocks in the S&P 500 index, utilizing the IEX API to retrieve financial data.
- Executed trades using the Alpaca API, dynamically calculating the number of shares per trade based on available capital and portfolio size.

## TECHNICAL SKILLS & EXTRA CIRICULAR

**Languages:** Java, Python, C, JavaScript, HTML/CSS

**Frameworks & Tools:** React, Node.js, Flask, Material-UI, Git, VScode, IntelliJ

**Certifications:** AWS Certified Cloud Practitioner

**Leadership Positions:** Student Ambassador & Computer Science Peer Mentor