Joshua Banga

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Skills

Programming Languages: C++, Python, SQL (MySQL and Postgres)
Technologies: Git, PowerBI, Microsoft Specialist qualifications in Excel and PowerPoint, AWS services (EC2, S3, IAM, Lambda, DynamoDB, RDS and VPC)

Experience

Data Analyst, Fleet Logistics UK – Birmingham, England — Jan – Mar 2021
- Streamlined international data collaboration by adapting to German data protection laws, adapting existing protocols used in data that excluded Germany while working closely with the German office
- Designed a bespoke global CO_2 emissions report by analysing customer fleet data, uncovering predictive trends to guide managerial and Account Manager decision-making
- Diagnosed and resolved data integrity issues caused by inconsistent input standards, collaborating with national offices and third-party vendors to recover and validate datasets

Junior Business Analyst, Fleet Logistics UK – Birmingham, England — Feb – Jun 2019
- Developed frameworks to address daily data anomalies, enabling efficient identification of patterns and improving models accuracy through proper anomaly handling
- Created data visualisations for over 20 clients, thereby improving strategic planning and resulting in a 15% increase in client satisfaction
- Advised clients on cost-saving strategies, such as transitioning to hybrid fleets or optimizing fuel card usage, contributing to operational savings

Technology Intern, IBM – Birmingham, England — Jun – Jul 2020
- Led a team of five in the Birmingham Project to develop solutions for client challenges
- Proposed and advocated for a sustainable 'green' solution aligned with IBM's environmental goals

Research Intern, Rolls-Royce – Birmingham, England — Oct 2016 – May 2017
- Analyzed failure mechanisms of a particular fuel valve shim in an aero-engine using SolidWorks and Newtonian modeling, proposing a conical redesign that enhanced structural integrity
- Collaborated with a team of five engineers and mentors to prototype the solution using CNC machining and lathe tools and showcase the proposal at an engineering conference

Team Leader, Myer – Sydney, Australia — Sep 2022 - Jul 2023
- Served as primary First Aid responder and Fire Warden, led cross-functional teams of up to six members on high-stakes initiatives and mentored two perspective team leaders

Projects

qtetris — github.com/lavis0/qtetris
- Collaboratively created a game, written in Python, using the Qiskit library, showcasing a quantum spin on Tetris

Awards

CREST Gold Award — Mar 2018
Completed a research project at Rolls-Royce, along with 4 other students

RSC Chemistry Olympiad Round One - Gold — Feb 2018

BAAO Astronomy & Astrophysics Olympiad Round One - Merit — Jan 2018
Undertook preparation for this exam independently, both self-guiding and self-teaching

Education

University of Birmingham – BSc Natural Science (majoring Computer Science) — Aug 2024
Grade: Class II, Division II. Highlights: Programming in Java **(82%)**, From Research to Policy I **(70%)**
University of Technology, Sydney – BSc Year Abroad — Jun 2023
Highlights: Data Analytics in Python **(86%)**, Intro to Quantum Computing **(92%)**
King Edward VI Camp Hill – A-Levels — May 2018
Grades: Mathematics **(A)**, Further Mathematics **(B)**, Chemistry **(B)**, Physics **(B)**