Abdullah Muhammad-Kamal

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EDUCATION

UNIVERSITY OF WARWICK   **OCT 2017 – JUL 2021**
BSc (Hons) Computer and Management Sciences
- Key modules include Databases, Algorithms, Design of Information Structures, Operating Systems and Computer Networks.

TOWNLEY GRAMMAR SCHOOL   **SEP 2015 - JUL 2017**
A Levels: Mathematics (A) Chemistry (A) Biology (A)

COOPERS SCHOOL   **SEP 2010 - JUL 2015**
10 GCSE grades A*-B including Maths, English and Triple Science

CERTIFICATES

BCS Foundation Certificate in Systems Development   **JULY 2020**

TECHNOLOGICAL PROJECTS

PREDICTIING DRUG-DISEASE LINKS WITH DISTRIBUTIVE AND SYMBOLIC ML METHODS (PYTHON, R AND PROLOG)   **SEP 2019 – MAR 2020**
- Collected and cleaned pharmacogenetic data from STRING, DrugBank, SIDER and DisGenNET databases to build a knowledgebase.
- Developed link prediction models using the PYKEEN tool on the knowledgebase.
- Improved and analysed the performance of different distributive methods provided by PYKEEN; TransE, TransR and ConvE.
- Predicted missing links using Top-Down Induction of Logical Decision Trees developed from the Prolog knowledgebase.
- Analysing and comparing the models produced using PYKEEN and Top-Down Induction of Logical Decision Trees.

SMART APPLICANT TRACKING SYSTEM (HTML, CSS, JQUERY AND PYTHON DJANGO)   **JAN 2019 – MAR 2019**
- Acted as the team's Business Analyst and frontend team member in creating a prototype for a smart application system.
- Led client consultation meetings to understand the stakeholder's existing environment, needs and concerns.
- Selected solutions that delivered the most value based on factors such as: scope, risk and reusability and capabilities.
- Used machine learning to rank applicants, based on application features such as skills and experiences.
- Awarded second place by Deutsche Bank out of thirty-two participating teams.

DEPARTMENT STORE DATABASE MANAGEMENT APPLICATION (SQL AND JAVA)   **NOV 2018 – DEC 2018**
- Produced a database application to expand the services a department store offers.
- Wrote SQL schema describing the tables: inventory, orders, order products, staff and staff orders.
- Developed queries providing analysis on staff and product data E.G. highest selling products, highest selling staff.

MULTITHREADED INTRUSION DETECTION SYSTEM (C)   **OCT 2018 – NOV 2018**
- Intercepting and parsing IP and TCP protocol layers.
- Identifying suspicious packets and producing a report containing a breakdown of the malicious activity.
- Implementing a threading strategy to allow code to deal with high packet throughput.

ROBOT MAZE (JAVA)   **OCT 2017 – NOV 2017**
- Designing a robot exploration and navigation algorithms to successfully navigate through a maze.
- Enabling the robot to sense the location of the target and therefore be able to make decisions to move closer to the target.
- Implementing the Thremaux's algorithm to enable robot to learn from previous runs of a maze.

WORK EXPERIENCE

KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY | Computational Biology Research Intern   **SEP 2019 – MAR 2020**
- Working under the supervision of Prof. Robert Hoehndorf as part of the Bio-Ontology Research group.
- Worked on a project titled 'Predicting drug-disease links with distributive and symbolic methods.
- Created and analysed graph-based machine learning algorithms to predict missing links in pharmacogenetic data.
- Developed a network representing the interactions between drugs, genes and diseases using RDF and Prolog format.
- Presented my findings to an audience of Professors, Research Scientist and current PhD students.

TEACH FIRST | Intern STEM Teacher   **MAR 2019 – APR 2019**
- Spent two weeks practically experiencing the STEM challenge through teaching at a state run non-selective secondary school.
- Taught database concepts and the python programming language, using live demonstrations, to children aged 11-16.
- Offered a full-time teaching role from my performance as a teacher and member of staff.

WARWICK AFRICA SUMMIT | Events Team Executive   **OCT 2018 – APR 2019**
- Organised a two-day conference on the social and economic development of Africa, hosting 20+ speakers and 500 attendees.
- Planned an exhibition/showcase for distinguished speakers, celebrating creative talent within students at the University of Warwick.
- Worked with the marketing team to devise an efficient digital marketing strategy through social media to maximise ticket sales.
- Successfully sold out tickets to 500 attendees' two weeks before the event

VOLUNTEERING

WARWICK ISLAMIC SOCIETY | Charity Week 2018 Volunteer.   **OCT 2018 – NOV 2018**
- Planned events to raise funds for orphans and children in the local area and worldwide.
- Coordinated events during the week to inform people of the mission of charity week and encouraging them to donate.
- Successfully raised the most in the Midlands with a total of £20,994.

EXTRACURRICULAR & SKILLS

TECHNOLOGY: Proficient in Python, Java, HTML, CSS, JavaScript and SQL; familiar with PHP and C++.
SOFTWARE: Microsoft Office (Word, PowerPoint and Excel), LaTex and BibLaTex.
LANGUAGES: English (Fluent/Native) and Yoruba (Fluent/Native).