

Abdullah Muhammad-Kamal

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EDUCATION

UNIVERSITY OF WARWICK BSc (Hons) Computer and Management Sciences <ul style="list-style-type: none">Key modules include Databases, Algorithms, Design of Information Structures, Operating Systems and Computer Networks.	OCT 2017 – JUL 2021
TOWNLEY GRAMMAR SCHOOL A Levels: Mathematics (A) Chemistry (A) Biology (A)	SEP 2015 – JUL 2017
COOPERS SCHOOL 10 GCSE grades A*-B including Maths, English and Triple Science	SEP 2010 – JUL 2015

CERTIFICATES

BCS Foundation Certificate in Systems Development	JULY 2020
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TECHNOLOGICAL PROJECTS

PREDICTING DRUG-DISEASE LINKS WITH DISTRIBUTIVE AND SYMBOLIC ML METHODS (PYTHON, R, SQL AND PROLOG)	SEP 2019 – MAR 2020
<ul style="list-style-type: none">Collected and cleaned pharmacogenetic data from STRING, DrugBank, SIDER and DisGenNET databases to build a knowledgebase.Developed and improved the performance of different distributive machine learning models; TransE, TransR and ConvE.Implemented a Top-Down Induction on Logical Decision Trees algorithm for missing link prediction of the knowledgebase.Evaluated the performance of the distributive models in comparison to symbolic models.Successfully presented project results and findings to an audience of associate professors, PhD students and Research Scientists.	
SMART APPLICANT TRACKING SYSTEM (HTML, CSS, JQUERY AND PYTHON DJANGO)	JAN 2019 – MAR 2019
<ul style="list-style-type: none">Acted as the team's business analyst and frontend engineer in creating a prototype for a smart application system.Implemented an AGILE framework in the development cycle of the product.Lead client consultation meetings to understand the stakeholder's existing environment, needs and concerns.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
<ul style="list-style-type: none">Produced a database application to expand and automate the services a department store offers.Wrote a 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
<ul style="list-style-type: none">Intercepted and parsed IP and TCP protocol layers to Identify suspicious packets.Implemented a threading strategy to allow code to deal with high packet throughput.Produced a report summarizing all malicious activity found in the packets.Successfully caught and reported 130 Xmas attacks and 2 URL blacklist violations.	
ROBOT MAZE (JAVA)	OCT 2017 – NOV 2017
<ul style="list-style-type: none">Designed a robot exploration and navigation algorithm to successfully navigate through a maze.Enabled the robot to sense the location of the target and make progressive decisions towards the target.Implemented the Thremaux's algorithm to improve robot's decision making.Successfully reduced the amount of steps taken by the robot using the shortest path discovered using the Thremaux's algorithm.	

WORK EXPERIENCE

KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY Computational Biology Research Intern	SEP 2019 – MAR 2020
<ul style="list-style-type: none">Worked under the supervision of Prof. Robert Hoehndorf as part of the Bio-Ontology Research group.Developed 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 and results to an audience of Associate Professors, Research Scientist and current PhD students.	
TEACH FIRST Trainee STEM Teacher	MAR 2019 – APR 2019
<ul style="list-style-type: none">Spent two weeks practically experiencing the STEM challenge through teaching at a state run, non-selective secondary school.Taught relational 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
<ul style="list-style-type: none">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 conference.	

VOLUNTEERING

WARWICK ISLAMIC SOCIETY Charity Week 2018 Volunteer.	OCT 2018 – NOV 2018
<ul style="list-style-type: none">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 money in the Midlands with a total of £20,994.	

SKILLS

PROGRAMMING LANGUAGES: Proficient in Python, Java, HTML, CSS, JavaScript and SQL; familiar with PHP and C.
LANGUAGES: English (Fluent/Native) and Yoruba (Fluent/Native).