

# Abdullah Muhammad-Kamal

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## EDUCATION

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

## CERTIFICATES

BCS Foundation Certificate in Systems Development	<b>JULY 2020</b>
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## TECHNOLOGICAL PROJECTS

<b>PREDICTING DRUG-DISEASE LINKS WITH DISTRIBUTIVE AND SYMBOLIC ML METHODS (PYTHON, R, SQL AND PROLOG)</b>	<b>SEP 2019 – MAR 2020</b>
<ul style="list-style-type: none"><li>Collected and cleaned pharmacogenetic data from STRING, DrugBank, SIDER and DisGenNET databases to build a knowledgebase.</li><li>Developed and improved the performance of different distributive machine learning models; TransE, TransR and ConvE.</li><li>Implemented a Top-Down Induction on Logical Decision Trees algorithm for missing link prediction of the knowledgebase.</li><li>Evaluated the performance of the distributive models in comparison to symbolic models.</li><li>Successfully presented project results and findings to an audience of associate professors, PhD students and Research Scientists.</li></ul>	
<b>SMART APPLICANT TRACKING SYSTEM (HTML, CSS, JQUERY, PYTHON DJANGO AND MONGODB)</b>	<b>JAN 2019 – MAR 2019</b>
<ul style="list-style-type: none"><li>Acted as the team's business analyst and frontend engineer in creating a prototype for a smart application system.</li><li>Implemented an AGILE framework in the development cycle of the product.</li><li>Lead client consultation meetings to understand the stakeholder's existing environment, needs and concerns.</li><li>Used machine learning to rank applicants based on application features such as skills and experiences.</li><li>Awarded second place by Deutsche Bank out of thirty-two participating teams.</li></ul>	
<b>DEPARTMENT STORE DATABASE MANAGEMENT APPLICATION (SQL AND JAVA)</b>	<b>NOV 2018 – DEC 2018</b>
<ul style="list-style-type: none"><li>Produced a database application to expand and automate the services a department store offers.</li><li>Wrote a SQL schema describing the tables: inventory, orders, order products, staff and staff orders.</li><li>Developed queries providing analysis on staff and product data E.G. highest selling products, highest selling staff.</li></ul>	
<b>MULTITHREADED INTRUSION DETECTION SYSTEM (C)</b>	<b>OCT 2018 – NOV 2018</b>
<ul style="list-style-type: none"><li>Intercepted and parsed IP and TCP protocol layers to Identify suspicious packets.</li><li>Implemented a threading strategy to allow code to deal with high packet throughput.</li><li>Produced a report summarizing all malicious activity found in the packets.</li><li>Successfully caught and reported 130 Xmas attacks and 2 URL blacklist violations.</li></ul>	
<b>ROBOT MAZE (JAVA)</b>	<b>OCT 2017 – NOV 2017</b>
<ul style="list-style-type: none"><li>Designed a robot exploration and navigation algorithm to successfully navigate through a maze.</li><li>Enabled the robot to sense the location of the target and make progressive decisions towards the target.</li><li>Implemented the Thremaux's algorithm to improve robot's decision making.</li><li>Successfully reduced the amount of steps taken by the robot using the shortest path discovered using the Thremaux's algorithm.</li></ul>	

## WORK EXPERIENCE

<b>KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY</b>   Computational Biology Research Intern	<b>SEP 2019 – MAR 2020</b>
<ul style="list-style-type: none"><li>Worked under the supervision of Prof. Robert Hoehndorf as part of the Bio-Ontology Research group.</li><li>Developed and analysed graph-based machine learning algorithms to predict missing links in pharmacogenetic data.</li><li>Developed a network representing the interactions between drugs, genes and diseases using RDF and Prolog format.</li><li>Presented my findings and results to an audience of Associate Professors, Research Scientist and current PhD students.</li></ul>	
<b>TEACH FIRST</b>   Trainee STEM Teacher	<b>MAR 2019 – APR 2019</b>
<ul style="list-style-type: none"><li>Spent two weeks practically experiencing the STEM challenge through teaching at a state run, non-selective secondary school.</li><li>Taught relational database concepts and the python programming language, using live demonstrations, to children aged 11-16.</li><li>Offered a full-time teaching role from my performance as a teacher and member of staff.</li></ul>	
<b>WARWICK AFRICA SUMMIT</b>   Events Team Executive	<b>OCT 2018 – APR 2019</b>
<ul style="list-style-type: none"><li>Organised a two-day conference on the social and economic development of Africa, hosting 20+ speakers and 500 attendees.</li><li>Planned an exhibition/showcase for distinguished speakers, celebrating creative talent within students at the University of Warwick.</li><li>Worked with the marketing team to devise an efficient digital marketing strategy through social media to maximise ticket sales.</li><li>Successfully sold out tickets to 500 attendees' two weeks before the conference.</li></ul>	

## VOLUNTEERING

<b>WARWICK ISLAMIC SOCIETY</b>   Charity Week 2018 Volunteer.	<b>OCT 2018 – NOV 2018</b>
<ul style="list-style-type: none"><li>Planned events to raise funds for orphans and children in the local area and worldwide.</li><li>Coordinated events during the week to inform people of the mission of charity week and encouraging them to donate.</li><li>Successfully raised the most money in the Midlands with a total of £20,994.</li></ul>	

## 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).