

KANEN KURUVILLA

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CAREER OBJECTIVE

A curiosity-driven Computer Scientist deeply interested in Artificial Intelligence and Robotics with the support of an expected 2:1 degree. Moreover, I take being environmentally cautious and maintaining my mental and physical well-being seriously. As a student from a diverse background, I would like to encourage the development of cultural unity and effective communication. Veganism plays a vital role in terms of the moral codes I follow to achieve living a healthy, long, and happy life.

WORK EXPERIENCE

2021-2022: Darktrace, Cambridge, United Kingdom (full-time) – Developer Intern

- Created a model trained and tested on malicious website URLs using the scikit-learn tool on Python to predict whether a domain looks malicious or not:
 - Compared the performance of classifiers such as Support Vector Machines (SVM), Random Forest, Gaussian Naive Bayes (GNB), etc., using evaluation metrics like precision, recall, f1 score, and Matthews Correlation Coefficient (MCC) score.
 - Further managed the model using pre-processing techniques such as feature extraction and normalisation, validation tools such as GridSearchCV, and applying feature analysis diagrams such as SHAP plots.
- Used my knowledge from making the malicious URL prediction model to improve the Darktrace AI product's performance in detecting domains that look dangerous.

2021: SYBYL, Kampala, Uganda (full-time) – RPA Developer

- Worked and managed an internal project with a small RPA team to create a process that included multiple bots that automated most of SYBYL's e-tender back-end process.

ADDITIONAL SKILLS

Languages: English (Advanced)

Programming: -C and C++ programming (including embedded C programming – Arduino)
-Java - Python - Query Language – SQL - Prolog
-Markup Languages: JavaScript and Web Development (HTML and CSS)

Microsoft Office: Microsoft Word, PowerPoint, Excel (Advanced)

EDUCATION AND QUALIFICATIONS

2021: Automation Anywhere Certified Advanced RPA Professional

- Learnt how to create, manage and deploy bots to do specific tasks
- Learnt how to navigate with AA's 360 Control Room, AARI (Automation Anywhere Robotic Interface) Desktop and AA's IQ bots

2021: Certified SCRUM Master



- Participated in a one-week online SCRUM master course learning about the principal SCRUM framework (Product Backlog, Daily Scrum Meetings, Sprint Retrospective, etc.) and the SCRUM values (Courage, Focus, Transparency, Commitment, etc.)

2020-2021: Udemy Ethical Hacking Online Course

- Learnt basic Kali Linux commands to make pre- and post-connection attacks

- Utilised Kali software such as Wireshark or Zen map for packet sniffing and gaining access.

2019-2023: Aberystwyth University

BSc Artificial Intelligence and Robotics (expected 2:1)

Relevant modules: Algorithm Design and Data Structures (68%), C and C++ (78%), Modelling Persistent Data (83%), Artificial Intelligence (86%), Machine Learning, Robotics and Embedded Systems (68%), Robotic Applications, Software Engineering (78%)

2003-2019: Kampala International School of Uganda

IB: Mathematics HL (4), Physics HL (4)

IGCSE: Information Communication Technology (A*), Mathematics (A), Physics (A*)

EXTRA SKILLS/INTERESTS

2022: Aberystwyth Surf Club

- Participating in the surf lessons every Saturday in the ice-cold ocean changed me a lot as a person, as it taught me a lot about self-control and discipline by focusing on my breath to prepare myself to be in the most uncomfortable situations in life.

2019-2022: Aberystwyth Men's Football Club

- Being an active player on Aberystwyth University's team has enhanced my teamwork, confidence, and communication skills to improve the team's chemistry during matches.
- Taking part in charities such as Aber Minds by donating and playing charity matches with other sports societies has furthered these skills.

2019-2020: Aberystwyth Vegan and Vegetarian Society

- Promoting veganism aiding the environment and general health.
- Participating in educational debates with the public has increased my ethical and philosophical knowledge concerning animal and ecological rights.

2018: LAMDA (London Academy of Music and Dramatic Art)

- Gold Level grade 8 (Distinction)

2016: ABRSM (Associated Board of the Royal Schools of Music)

- Piano qualification grade 6 (Pass)
- Performed piano pieces at multiple church masses

REFERENCES

Mr Gigi Abraham
General Software Manage
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Dr Myra Wilson
Computer Science Professor (personal tutor for Major Project)
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