Zyron Audwyn Dias

Computer Science Intern

📍 12 Sefton Court, Hounslow, UK, TW34AG
📞 +447440598053
✉ zyrondias98@gmail.com
in linkedin.com/in/zyron-dias-002116113/

Education

BSc (Hons) Computer Science   2017 - Present
University of Warwick (Coventry, UK)

- Expected Graduation in 2020
- First-year mark: 73.2% (*First Class Classification*) with the highest mark of 94 in Mathematics.
- Currently enrolled in courses including Cyber Security, Artificial Intelligence, Algorithms, Software Engineering, Mathematics, Database Systems, Operating systems and computer networks, Web development and Computer Architecture

A-Levels   2015 - 2017
Lampton School Sixth Form (London, UK)

3 A-Levels: Further Maths -A* Maths-A Physics-A

GCSE   2014 - 2015
Kingsley Academy (London, UK)

7 GCSE's A*-C including Maths and English

SSC   2002 - 2014
St. Dominic Savio High School (Mumbai, India)

SSC, securing 91.2%

Achievements

- **Won the Bronze Certificate in the UK Maths Trust- Maths Challenge during the 'A' level 2015.**
- **Won the Bronze certificate in the UK Maths Trust - Maths Challenge during the GCSE's**

Projects

Multi-Threaded Intrusion Detection System:

- Designed and implemented a basic multi-threaded Intrusion detection system for the main purpose of packet sniffing.
- Software developed in **C** programming language
- Used the **libpcap** library to receive packets and strip the outer-most layer of the protocol stack.
- Main features included parsing **Ethernet**, TCP, **IP and ARP** headers and detecting Malicious packets including **ARP responses, blacklisted URL, and Xmas Tree scans.**
- Designed a multi-threaded "**Threadpool**" version to ensure the system can handle high data rates.

Expense splitting online web tool:

- Developed an online bill splitting tool for splitting expenses between members or groups.
- Implemented a secure login and registration system.**Used several web security techniques including password hashing, encryption techniques,** and general web security techniques to ensure the user and developer safety.
- Used **HTML and CSS** for web design and **javascript** to improve the user experience. Engineered the back-end using **SQL, PHP, JQuery, JSON and AJAX** for inserting and retrieval of data from the database.
- Finishing the product before the deadline helped me manage time efficiently, which was a result of organizing tasks and files for the product.

Artificial Intelligence powered, shortest path finding virtual robot:

- Built an **AI-enabled robot** that finds the shortest path to the target in any maze using **Java.**
- Engineered the virtual robot based on the given specification and implemented several testing methods and evaluation techniques.
- Devised several techniques for error handling efficient debugging.
- Implemented complex algorithms such as **Tremaux's algorithms** to solve the maze along with **data-structures** such as stacks, arrays and array-lists.
- Carried out a similar project using **python** and the **A* algorithm**
- Using algorithms and data-structures helped me improve upon my problem-solving skills.
- Completion of the project before the given deadline motivated me to manage time and organise tasks efficiently.

Virtual Pong game using micro-controllers and an Oscilloscope(Group Project):

- Programmed a micro-controller (ARM Processor) using **C** to create the classic pong game.
- Specification included a moving ball and paddles on an Oscilloscope screen.
- Set up individual goals for members of the team.
- Responsible for making the right evaluation and setting up different testing methods for the game.
- Collaborated on the project using text editor's peer sharing.
- lead the team through the brainstorming sessions where we came up with ideas to write efficient programs, testing and evaluation techniques.

Technical Skills

- **Programming: Profeicient in Java, Python, SQL, C, PHP, HTML, CSS, JQuery/Javascript.**
- **Operating Systems: Proficient in using Linux, Windows and Mac Operating systems.**
- **Working knowledge of Computers on DesktopSQLite and Oracle Databases, Internet, MS-Office, Illustration, Dreamweaver etc.**
- **Languages: Fluent in speaking and writing English and Hindi**

Work Experience

Student Tutor   March 2017 - May 2017

Lampton School

- Responsible for assisting students with their academics mostly in the field of mathematics.
- Setting up weekly tasks, assessment, and evaluation.
- Organizing weekly sessions with varied levels of difficulty.
- Held after school sessions for students in the risk of failing or need help with the subject.

Accountant   December 2015 - February 2016

Bhakti Yoga Institute

- Overall responsibility for creating data tables and entering data
- Responsible for using calculative formulas and formulating graphs.
- Responsible for sorting out data in order to improve efficiency in data entry and searching.

Other Experiences

- **Great interest in football as I have represented West London Youth Football Club in the League football tournaments, State of Maharashtra (India) in All India National Football Tournament and my school at an Inter-school level as well as Regional level.**
- **Reading business/ entrepreneurial books and biographies**
- **Strong interest in new mobile phone and computer technologies and how they function.**
- **Participated in various public speaking competitions and debates.**
- **Interested in photography and travel**