

ZUHAIRA NASRIN BINTI ZAKARIA

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Objective

Application for practical training opportunities in a well established company to gain hands-on experience, enhance skills, and contribute meaningfully to the organisation's goals. I am committed to continuous self-development and bringing a strong work ethic and dedication to any task I undertake.

Experience

Frenztalk

Mathematics and Computer Science Tutor

2023 - Present

- Led engaging 1-hour trial sessions in Additional Mathematics, Mathematics, and Computer Science, and provided personalised weekly sessions tailored to each student.
- Demonstrated strong organisational skills through personalised session planning, promoting a productive learning environment.

Computer Science Department Ambassador

Ambassador

2022

- Served as an ambassador for the DStem Outreach Event, facilitating engaging sessions for high school students interested in STEM at the university.
- Guided students through a hands-on Python lab session, utilising exercises provided by lecturers; quickly adapted to Python, leveraging strong foundations in Java and C#.

Projects

Dissertation Project

Garden Planning Tool

2023–2024

- Led an independent research initiative developing a Garden Planning Tool applying L-system rules, offering dynamic garden layout designs with seasonal changes.
- Prioritising sustainability, and user engagement, aiming to provide an insightful and interactive gardening experience through a visually intuitive tool.
- Technologies used: Blender, Python

Renewable Energy System Analysis and Reporting Platform Development

Team Software Developer, CAN Renewables

2023

- Developed a comprehensive web-based platform to facilitate the assessment of renewable energy systems for corporate use.
- Led the implementation of key features including secure user authentication, robust database management, and a dynamic administrator interface for enhanced user experience and data accuracy in graphical reports.
- Utilised Ruby on Rails to create a scalable solution that enables staff to efficiently generate predictive reports and insights for customer presentations.

Software Engineering Module Year 2

Software design and security module

2022

- Advanced Java programming to integrate with MySQL databases and create GUI applications using Swing.
- Practised interviewing techniques to bridge communication gaps between customers and developers.

Accessible Drum System Development for Individuals with DMD

Participant, Hackcessible – University of Sheffield

2022

- Collaborated with a multidisciplinary team of students to design and prototype an accessible drum system tailored for individuals diagnosed with Duchenne Muscular Dystrophy (DMD), facilitating musical education and enjoyment.
- Implemented control systems using Arduino and programmed the functionality in C++, focusing on ease of use and adaptability to the user's physical abilities.
- Awarded Winner of Hackcessible for outstanding innovation and contribution to accessible technology, demonstrating enhanced technical skills and ability to work effectively in diverse teams.

Skills

Computer skills

- Programming languages: Python, Java
- Web technologies: HTML, CSS, JavaScript, Ruby, Ruby on Rails
- Software development tools: Git, Visual Studio Code

Soft skills

- Effective time management
- Adaptability
- Reliability and Commitment
- Communication
- Problem-Solving

Language proficiency

- English: IELTS 7.0, English B HL IBDP 6 points
- Malay: Native, Malay A Literature IBDP 7 points
- Japanese: Beginner
- Russian: Beginner

Education

University of Sheffield

BSc in Computer Science

2021–2024

Class Two Division One Honours in Computer Science

Key Modules: Introduction to Software Engineering project, Software Hut: Team project, Java Programming, Web design and development, Testing and Analysis, and Internet Technology

MARA College Banting, Malaysia

International Baccalaureate in Applied Science

2019–2021

IB Total Point: 39/45

Key Subjects: Information Technology in a Global Society (ITGS) Extended Essay (B), ITGS Standard Level (7), English B Higher level (6), Mathematics Application and Interpretation Higher Level (6)

MRSM Pengkalan Chepa, Malaysia

2018

Malaysian Certificate of Education

Awarded 3A+ 4A 2A-

Key Subjects: Biology, Mathematics, English

Expected salary

RM3500 (Negotiable)

Extracurricular activities**Sheffield Malaysian Games: 4th in 400m and 3rd in 100m**

Participant

2024

- Participated in yearly Malaysian Games for 400m and 100m women with self-training.

Sheffield Malaysian Society

Head of Protocol, Sheffield Malaysian Games

2021

- Led the planning and execution of the Sheffield Malaysian Games, coordinating logistics and participant engagement, ensuring adherence to cultural and organisational protocols.

Taekwondo Belt Upgrading Events

Participant

2021-2022

- Participated in belt upgrading events, demonstrating discipline, perseverance, and commitment to achieving personal fitness goals alongside academic responsibilities.

Student Representative Council

Women's Religious Affairs Officer

2019-2020

- Organised and led religious events and weekly speaker sessions focused on women's well-being and spiritual growth.
- Designed and executed various initiatives to encourage participation among female students, fostering a supportive and inclusive environment.
- Collaborated with religious leaders and community members to bring diverse perspectives and insights to the student body.

School Cooperative Board Member

Audit Team

2017-2018

- Assisted in managing the school's cooperation centre, providing essential snacks and necessities to students.
- Served as part of the audit team, ensuring accurate financial records and maintaining transparency in operations.
- Regularly scheduled to oversee the shop, managing inventory and sales during and after school hours.
- Contributed to the smooth operation of the shop by selling snacks and other items to students after studies, promoting a convenient and supportive environment for the student body.