

Nurul Hamizah binti Che Azemin

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Profile Summary

Bioinformatics fresh graduate from Universiti Malaya with passion in coding and recently completed industrial training as IT intern at Original Intelligence Sdn. Bhd., who aspire to seek available position related to software development, data analysis, or bioinformatics field.

Education

Universiti Malaya

Bachelor of Science in Bioinformatics

2020 - 2024

CGPA: 3.69

Pahang Matriculation College

Science Module III: Biology & Computer Science

2018 - 2020

CGPA: 3.54

Involvement & Co-curricular

University

- Softball UM Mar 2023
- Committee of Royal Cultural Diversity Event Mar 2022
- Participant of Youth STEM Leadership Forum Feb 2021

Matriculation

- Facilitator of Computer Science subject Mar 2020
- Volunteer of KMPH Slow Pitch Tournament Feb 2020
- Committee of 'Biro Perhubungan Luar' Mar 2019

Awards & Scholarship

- Dean's List Award Semester 2 2021/2022 Aug 2022
- Dean's List Award Semester 1 2021/2022 Mar 2022
- Sponsorship by Program Ijazah Dalam Negara, JPA Sep 2021

Experience

Original Intelligence Sdn. Bhd.

Information Technology Intern

Oct 2023 – Jan 2024

- Assisted developers in configuring software and tools for real-time projects.
- Developed web pages using VB.NET to be added into existing system.
- Contributed to quality assurance (QA) team by testing the functionality of Human Resource Management System against specified requirements.
- Conducted troubleshooting of errors in MSSQL database server and identified issues in code within Visual Studio.
- Collaborated in code modification using VB.NET on Visual Studio and SQL stored procedure scripts to align with feature scope specifications.

Projects

HTML, CSS & JavaScript

- Developed interactive and responsive portfolio website, ensuring compatibility across diverse screen sizes for optimal user experience.
- Created web application to calculate Body Mass Index (BMI) as general indicator of healthy body weight.
- Designed website for biomolecular sequence analysis, providing platform for researchers to analyse biomolecular data effectively.

Python

- Developed model for Covid-19 detection in chest X-ray images with various Python libraries, achieving average accuracies of 96% for machine learning and 89% for transfer learning.
- Utilized regular expressions for nucleotide and protein sequence extraction, to convert into variety of sequence file formats.

R

- Prediction on number of Covid-19 cases and deaths in Malaysia using ARIMA forecasting method.
- Gene expression analysis on two types of drugs for breast cancer, with implementation of heatmap clustering to identify upregulated and downregulated genes.

MATLAB

- Classification on 13k samples with seven types of dry beans using SVM machine learning method, with an average accuracy of 89.2%.

Linux

- Conducted comparative analysis of protein sequences between non-pathogenic and pathogenic strains using BLAST on Ubuntu.

Skills

- **Programming Languages** : VB, Python, Java, R, MATLAB
- **Web Development** : HTML, CSS, JavaScript, VB.NET
- **Data Analysis** : Python, Jupyter Notebook, R, MATLAB, SQL
- **Tools** : VS Code, Microsoft SQL Server, Visual Studio (.NET), Linux

Languages

- **Malay** : Native speaker
- **English** : Intermediate proficiency
- **Mandarin** : Basic

References

1. Dr. Chang Siow Wee

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2. Mr. Koo Chun Shiong

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