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: 3.67

Pahang Matriculation College
Science Module III: Biology & Computer Science   2018 - 2020
CGPA: 3.54

Involvement & Co-curricular

University
- Softball UM   Mar 2023
- 5km Fun Run UM 2022   Jun 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 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 Visual Studio and SQL stored procedure scripts to align with feature scope specifications.

Projects

HTML, CSS & JavaScript
- Developed interactive and responsive webpages, ensuring compatibility across diverse screen sizes for optimal user experience.

VB.NET & MSSQL
- Enhanced functionality of Human Resource Management System web application using VB.NET on Visual Studio and MSSQL stored procedures during internship.

Python
- Covid-19 detection from chest X-ray images using deep learning and machine learning approaches, 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 Language** : VB, Python, R, MATLAB, JavaScript, Java
- **Web Development** : HTML, CSS, JavaScript, VB.NET
- **Data Analysis** : Python, Jupyter Notebook, R, MATLAB, SQL
- **Tools** : VS Code, Microsoft SQL Server, Visual Studio (.NET), Ubuntu

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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