

MUHAMMAD BIN BANI YAMIN

Software Engineering Student

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SUMMARY

I am a software engineering student at 42 Kuala Lumpur and a Master of Science (MSc) student at Universiti Malaya. Currently, I am enhancing my skills in Next.js and Golang. I previously worked as a research assistant in bioinformatics, where I gained extensive experience in large-scale genomic analysis. My background combines practical programming expertise with strong research capabilities

PROJECTS

Resume Checker

📅 05/2026 - Present 📍 42KL

Python Language (K-youth Programme)

- Architected an Extract, Transform and Load (ETL) pipeline using Medallion Architecture.
- Implemented feature engineering through data tagging and LLM integration.
- Practiced Conventional Commits for git commits.

42 Syllabus

📅 11/2024 - Present 📍 42KL

Mainly C and C++ Language (Core Programme)

- Developing a marketplace for Ft_transcendence project using Next.js and Golang (Echo framework).
- Built the Webserv project, developing an HTTP server using non-blocking I/O, multiplexing and socket programming.
- Constructed Inception project using multi-container Docker architectures to orchestrate LEMP stacks concepts.
- Resolved concurrency and multithreading complexity using mutexes.
- Rendered 3D wireframe map using Bresenham algorithm and trigonometry.
- Created projects with algorithms (quick-sort, BSQ) and virtual machine usage.

Genetics of Obesity Research

📅 01/2022 - 08/2025 📍 Universiti Malaya

Bioinformatics and Statistical Analysis

- Implemented data cleaning and statistical analysis of 600,000 genomic variants associated with obesity-related phenotypes in 240 Malaysian youth and 198 children.
- Practiced Microarray analysis, Imputation, GWAS, CNV Analysis, Polygenic Score and Association Analysis for Obesity related genes.
- Utilized industry-standard bioinformatics software and statistical packages, including PLINK, PennCNV, IBM SPSS Statistics, imputation engines, and R.

EDUCATION

Core Programme

42KL

📅 11/2024 - Present

Master of Science (Research Mode)

Universiti Malaya

📅 09/2022 - 08/2025

SKILLS

Next.js Genomics Python ETL

Git C/C++ Golang Socket.IO

Docker Multi-threading

IBM SPSS Statistics R

LANGUAGES

English

Proficient



Arabic

Intermediate



Mandarin

Beginner



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Github

[muhamadd99 \(Leo Muhammad\)](#)