MIKHAIL ARMANUEL

2nd Year Computer Science Undergraduate

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hootyhoot

EXPERIENCE

Summer Research Internship
University of Nottingham

📅 June 2024 – September 2024   📍 University of Nottingham Malaysia

- Developed and implemented a full-stack book recommendation website, leveraging natural language processing (NLP) and vector embeddings to provide users with tailored suggestions based on content similarity.
- Gained practical experience in cloud-based web applications and successfully deployed the web app with Render.

PROJECTS

Book Recommender
Developed a web app tool for searching books based on embeddings and vector databases.

Utilised:
- Text Embeddings
- OpenAI API
- ISBNdb API
- Python
- Flask

METARbot
Developed a Discord bot privately hosted inside a docker container to fetch METARs (Weather reports used in aviation) for flight simulation purposes which has been used in over 75 flight sim servers.

Utilised:
- Discord API
- CheckWX API
- Python
- Flask
- Docker

Personal Portfolio Website
Designed, developed, and deployed a personal portfolio website to showcase projects, skills, and professional experience.

Utilised:
- Github Pages

MY LIFE PHILOSOPHY

"Strive to make a meaningful difference with the things you make"

ACHIEVEMENTS

🏆 **Participant in 'Malaysia Cybersecurity Camp 2024'**
Joined MCC2024 hosted by cyber-camp.my, participated in courses for Web Vulnerability, Reverse Engineering, IoT and Hardware Hacking, and Lockpicking

🏆 **Participant in 'APU Battle of Hackers CTF 2024'**
Lead a team of 3 in APU's Battle of Hackers 2024 Hackathon

📄 **Successfully Deployed Homeserver**
Built, setup Mikrotik networking, and manage Dell R430 Homeserver running Proxmox hypervisor, with True-NAS and Coolify site hosting servers for personal experimentation and use

STRENGTHS

Quick learner   Eye for detail

Team Motivator & Leader

Obsessively punctual in all matters

Server Management   Bash   Linux

Docker   Python   C

LANGUAGES

English   ●●●●●

Malay   ●●●●◐

Japanese   ●●◐○○

SpeedRead

Developed a Java application for speed reading PDF documents using Apache PDFBox library and Maven build automation tool.

Utilised:
- Desktop App Development
- Maven Build Tools
- Java

CERTIFICATIONS

CompTIA A+ (ONGOING)

Currently in the self-study process for the CompTIA A+ Certification

EDUCATION

B.Sc. Computer Science with AI (ON-GOING)

University of Nottingham

📅 Sept 2023 – June 2026

UK A2-Levels

Newton International Academy, QATAR

📅 Sept 2021 – June 2022

Grades: 1A*, 2A (3 Subjects Taken)

UK AS-Levels

Newton British Academy, QATAR

📅 Sept 2020 – June 2021

Grades: 4A (4 Subjects Taken)

UK IGCSEs

Newton British Academy, QATAR

📅 Sept 2019 – June 2020

Grades: 5A*, 4A (9 Subjects Taken)

REFEREES

Prof. Tissa Chandesa PhD.

@ University of Nottingham

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