John Ling

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WORK EXPERIENCE

AMBANK GROUP BHD,

Data and Digitalisation Intern

Kuala Lumpur, Malaysia

November - December 2023

Built a RAG-stack LLM system in 9 days that allowed users to receive tailored financial advice and compare over 1000
Malaysian companies for investing. Users could converse with the model and ask for further clarification on specific details of its responses. Built using React, MySQL and Flask. Learned a lot about RAG systems, LLMS and vector databases.

Developed a Work-From-Home reservation web app for employees in the Digitalisation department to request to
work from home and allowed managers to approve or reject requests. App was tested and deployed to an office of
60.

AMBANK GROUP BHD, Kuala Lumpur, Malaysia

Cyber Security Intern

October - November 2023

- Briefly worked alongside L1 SOC analysts at AmBank Group BHD, a bank whose largest stakeholder is ANZ, where I handled alerts from the bank's SIEM platform.
- Was present for a nation mandated cybersecurity drill in the bank and saw how the technical and management team handle a ransomware attack
- Found and **reported a potential weakness** in the company's data leakage prevention system that could be used in a possible data exfiltration.
- Learned more about penetration testing and went through previous tests with AmBank's VAPT team.
- Independently studied penetration testing through sites such as RootMe and HackTheBox. Learned about basic
 pentesting techniques such as SQL injection and HTTP interception with Burp Suite. I learned about weaknesses of
 modern web technologies such as GraphQL and JSON web tokens.

LANGUAGES AND TOOLS

Languages: Python, Javascript (React, Node and Vanilla), C

Tools: DigitalOcean, Docker, Firebase, NGINX

EDUCATION

University of Melbourne

BSc Computing and Software Systems

Parkville, Melbourne Feb 2024 - Nov 2026

Garden International School Kuala Lumpur, Malaysia

Computer Science: A* Mathematics: A* Physics A

August 2017 - August 2023

PROJECTS

A Levels 2023

- Pseudocode Compiler: A complete transpiler built using C++ that takes files containing a made up "pseudocode" language and
 converts it to Python. Uses a handmade lexer, recursive descent parser and code generator. The compiler also performs
 semantic analysis to find undeclared variables and has type checking.
- Trello Tabliss Integration: Forked the Tabliss browser extension and added my own modifications to pull data from my Trello board and display it conveniently in the browser homepage. The Trello module was written in **React** and used **Firebase with NodeJS** to handle the API calls to Trello.
- Cameraman: A camera that follows you in real-time. Electronics project that used Python with OpenCV to perform live face detection using a Caffe model. Coordinates of the face are sent to a standalone ATmega328p microcontroller that uses motors to adjust a camera to the position. Device was deployed within my school class to improve the hybrid teaching experience.
- johnling.me: My personal portfolio website where more details about me and my projects can be found. Built using Bootstrap, Sass and Javascript.
- ramble.johnling.me: CISSA CODEBREW Hackathon project that won "Best First Year" award. Made using React and Flask and then deployed using Docker.