

# John Ling

Melbourne, Australia johnling.me [github.com/John-Ling](https://github.com/John-Ling) johnlingbusiness@gmail.com

## WORK EXPERIENCE

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**AMBANK GROUP BHD,**  
Data and Digitalisation Intern

**Kuala Lumpur, Malaysia**  
*November - December 2023*

- Built a **RAG + 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**.

**AMBANK GROUP BHD,**  
Cyber Security Intern

**Kuala Lumpur, Malaysia**  
*October - November 2023*

- Briefly **worked alongside L1 SOC analysts** at AmBank Group BHD, a **bank affiliated with ANZ**, where I handled alerts from the bank's SIEM platform.
- Was present for a **cybersecurity drill** in the bank and saw how the technical and management team handle a ransomware attack
- Found and **reported a 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

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

**Tools:** DigitalOcean, Docker, Firebase, NGINX

## EDUCATION

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**University of Melbourne**  
BSc Computing and Software Systems

**Parkville, Melbourne**  
*2024 - 2027*

**Garden International School**  
A Levels 2023

**Kuala Lumpur, Malaysia**  
*2017 - 2023*

Computer Science: A\* Mathematics: A\* Physics A\*

IGCSE 2021

Physics: A\* Computer Science: A\* Mathematics: A\* English Literature: A\* Music: A\* History:  
A\* Biology: A\* Chemistry: A\* English Language: A\*

## PROJECTS

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- **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**. **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**.