CHOY MEI XIN

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PROFILE

Independent and driven software engineer with a background in Mathematics that works well in a team setting.
A quick learner with strong logical thinking skills and the ability to adapt to different environments.

EXPERIENCE

Dec 22-Present

Software Engineer, Full time, *Google*
Pixel Mobile Wireless Team, Taipei
- Worked with senior engineers to build up Pixel's modem power and thermal framework.
- Led the end to end development of modem features in embedded C++ with minimal assistance, which improved maintainability and debuggability.
- Led cross team collaboration to solve modem power and thermal critical issues.

May 22-Dec 22

Engineer, Full time, *Shopee*
Engineering Infrastructure Team, Singapore
- Participate in the development of Shopee's internal infrastructure platform.
- Improved the testing procedures of the development team by building a platform that provides a pipeline for various tests depending on the developer's needs.
- Led a project through the entire project lifecycle, including planning, system design, UI design, development, testing, documentation, and the official release.

Jan 22-Apr 22

Software Engineer, Internship, *Lizard Global*
- Participated in SCRUM events such as standups, sprint plannings, and sprint reviews
- Participated in the development of projects using MERN, Next js, Apollo, and Graph QL.
- Built a program that automates the creation of build environments, including Digital Ocean droplets, keycloak groups, Godaddy DNSes, SSL certificates, MongoDB, Docker and Nginx.

Jun 21-Aug 21

Frontend Software Developer, Part Time, *HEXA IoT*
- Worked closely with the CEO to develop the front end of an IoT web app.
- Led two developers to design and build the basic interface of the web app within one month.
- Implemented data visualizations to display past IoT device data using Chart js.

Jan 21-May 21

Full Stack Software Developer, Freelance, *Alekien Machinery*
- Built the frontend and backend of the company's official website and an additional admin portal (CMS), which includes authentication, encryption, products and image CRUD.
- Collaborated with a graphic designer to design the UIUX of the official website.

TECHNICAL SKILLS AND LANGUAGES

Programming Language	: Embedded C++, Java, Javascript, Typescript, Python, Go, MASM Assembly, R
Frontend	: React js, Next js, SCSS, Tailwind, Antd, Webpack, Figma
Backend	: Docker, Apollo, Nodejs, Express js, Nest js, Flask
Database	: SQL, MongoDB, GraphQL, Firebase
Others	: Agile, SCRUM, Git, Linux, Docker, Nginx, Eslint, Tableau, Digital Ocean, Android
Languages	: English, Chinese, Cantonese, Malay

PROJECTS

Content-Based Movie Recommender
- Flask app with Python and Javascipt algorithms that uses Linear Algebra methods (TF-IDF and Cosine Similarity) to generate content based movie recommendations.
- GitHub repository: github.com/meixinchoy/flask-movie-recommendation

COVID-19 Contact Tracing System
- Worked with a team to build an android app that is linked to a wristband in two months.
- The app uses geofencing to set the quarantine area and sends the data to the wristband via Bluetooth, and the wristband will notify the server if user takes off the wristband or leaves the quarantine area.
- Project details: choymeixin.netlify.app/assets/projects/Flash.pdf

Assembly Language Snake Game
- The classic snake game built from scratch using 32-bit MASM assembly language.
- Utilizing the Irvine32 library and coded in in protected mode with no interrupts.
- GitHub repository: github.com/meixinchoy/Snake-Game-Assembly-Language

For more projects, check out my portfolio website: meixinchoy.com

EDUCATION

June 2019- May 2022	**Tunku Abdul Rahman University College,** *Malaysia* ***BSc (Hons) in Management Mathematics with Computing***

- CGPA: 3.98/4.00
- Campus Leader of Google Developer Student Clubs
  - o Organized events in efforts to help our peers to learn about google developer technologies
  - o Hosted successful workshops, career talks, study jams, and a national hackathon.
- Vice President of Computer Science Society
  - o Coordinate and assist the Faculty of Computer Science in events and student activities
  - o Successfully organized workshops, talks and collaborations with companies.

AWARDS AND ACHIEVEMENTS

6x President List Awardee *(2019- 2021)*
- Tunku Abdul Rahman University College

Silver Award *(2021)*
- International Youth Math Challenge

Rank #6 *(2021)*
- ImagineHack Hackathon