

Catherine Lim Lee Ping

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Career Objective

Motivated and detail-oriented graduate with a bachelor's degree in science and minor in computer science, eager to leverage my academic background and programming skills to pursue a career as a backend engineer. Seeking an opportunity in a reputable organization where I can contribute my knowledge, continuously learn, and excel in developing scalable and efficient backend solutions. Committed to delivering high-quality work, collaborating effectively with teams, and growing into a valuable asset for the organization.

Education

Bachelor of Science

Universiti Sains Malaysia

Graduation: Sept 2022

Minor in Computer Science

Courses: Data Structures & Algorithms, C++ OOP, Web Applications, C++ Program Design, Database Organization and Design, Computer network and information security

Experience

Robert Bosch (M) Sdn Bhd. – Penang Malaysia Software Development Engineer

Nov 2022 – Current

- Utilized **Agile methodologies**, including SCRUM, to participate in sprint planning, stand-ups, and retrospectives, resulting in the successful delivery of high-quality software products.
- Developed embedded software for automotive application processors in a Linux-based environment, ensuring adherence to ASPICE standards for code quality and reliability.
- Proficient in C++ for embedded systems development, Python, and bash scripting for automation and testing purpose
- Improved coverage by writing unit, integration tests (**Docker, Gtest**)
- Contributed to the maintenance of codebase, including bug fixing and performance optimization (**C++**)

Key Achievements:

- As a feature owner of cTP3 project, led the development and integration of this project and other chain requests from customer side resulting in improved efficiency and reduced bugs.
- Collaborated with cross-functional teams to troubleshoot and resolve critical issues, ensuring project milestones were met on time.

Projects

USM Chat - [Website](#)

- Leveraged Cloudflare services to enhance the security and performance of USM Chat, ensuring robust protection against DDoS attacks and optimizing website delivery.
- Implemented **JavaScript** functionalities to enhance user interactions and improve the overall user experience of the USM Chat platform.
- Utilized **PHP** for server-side scripting, enabling dynamic content generation and seamless integration with backend systems.
- Designed and implemented **HTML** and **CSS** code to create intuitive user interfaces and ensure consistent branding across the USM Chat platform.
- Enhanced security features including login function, account lockout policy, password validation, backup and recovery, system log, SSL/TLS and firewall integration to protect users from potential threats.

Simple Web Server – [GitHub](#)

- Developed beginner-friendly web server in **Go**.
- Features: HTTP server setup, routing, request handling, static file serving, error handling.
- Functions include helloHandler (GET /hello), formHandler (POST /form).

Simple Web APIs – [GitHub](#)

- Developed **RESTful API** in **Go** for movie management.
- Implemented **CRUD** operations: Create, Read, Update, Delete.
- Utilized **Gorilla Mux router** for routing.
- Features HTTP server setup, request handling, and error handling.
- Functions include getMovies, getMovie, createMovie, updateMovie, and deleteMovie.
- Interacted with API using **cURL** or **Postman**.

Skills

Programming Skills: C++, Python, Golang, SQL.

Other Technologies: Git, Shell, Bash, ReactJS, HTML, CSS/Bootstrap, JSON, RESTful API, AWS, MySQL, Docker.