Louis Chin Chun Kai

Mobile no. : 017-8652001
Email : louischin19960802@yahoo.com
Address : Puchong, Selangor
LinkedIn : https://www.linkedin.com/in/louis-chin-chun-kai-96ab80161
GitHub : https://github.com/Louiscck

Profile

A detail-oriented engineer with about 3.5 years of experience in industrial automation, embedded system firmware development, design, troubleshooting, PLC programming, and electrical system design. I have a strong passion in programming and therefore is looking to pivot my career into Software Engineering. Picked up skills like Java, OOP, REST API, HTML, CSS, JavaScript, MySQL, JDBC, and Git to facilitate this transition. I've built and deployed a web app to demonstrate my fullstack development ability and dedication in making the transition. Known for being a team player, resourceful, fast-learning, and proactive in solving complex engineering problems.

Working Experience

Top Glove International Sdn. Bhd. (Jan 2022 – Apr 2025)
Industrial Automation Engineer

- Developed firmware (C/C++ like language) for microcontroller of an embedded system. Developed an algorithm to remove noise from the embedded system's sensor data.
- Developed a simple Android application (in Java) to control the embedded system mentioned above.
- Programmed a FANUC robotic arm used for lab-scale glove manufacturing.
- Developed a scheduler tool using Visual Studio (in C++) to optimize the manufacturing schedule of the robotic arm manufacturing system mentioned above.
- Programmed various scripts in Microsoft Excel to automate data processing for my team.
- Programmed PLC to automate manufacturing processes in factory.
- Experienced with cross-departmental collaboration to ensure timely project delivery.
- Lead a small unit of 3 engineers and trainees.

Personal Project

Inventory Management System (Web App)

- Built a web application with basic CRUD operation from scratch as a portfolio project.
- Use to keep track of inventory items, can add, search, edit, and delete items.
- Frontend built in HTML, CSS, and JavaScript, talk to backend server with Fetch API.
- Backend server built in Java with HttpServer, talk to frontend with RESTful API. Talk to MySQL database with JDBC and custom lightweight ORM.
- Future plan to upgrade with frameworks: React, Hibernate, Spring Boot.
- Responsive view for desktop and mobile devices.
- Version control with GitHub and API testing with Postman.
- Web application link: https://inventory-ms-demo.netlify.app/
- GitHub: https://github.com/Louiscck/Inventory-Management-System

Game Server Emulator Customization

- Worked on an open-sourced project from GitHub about a game server emulator for learning purpose.
- Modified the Java backend server logic in IntelliJ IDEA to change and add new features.
- Gained experience working with MySQL database.

Technical Skill

Programming & Software Development: Java, C/C++, REST API, Object-Oriented Programming (OOP), VBA, ladder diagram

Web / Frontend: HTML, CSS, JavaScript

Database: SQL, MySQL, JDBC

Development tools & IDEs: IntelliJ IDEA, MySQL Workbench, Visual Studio Code, GitHub, Postman, Visual Studio, Android Studio

Scripting & Automation: Microsoft Excel (VBA), Arduino (C/C++ like language)

Industrial Automation & Embedded System: PLC (Omron & Autonics) system design, programming, and troubleshooting. Microcontroller (Arduino) firmware programming, PCB & circuit design, and troubleshooting.

Education

Master of Engineering Science (Jun 2019 – Dec 2021)
Tunku Abdul Rahman University of Management and Technology (TARUMT)
Industrial project collaboration with Top Glove International Sdn. Bhd.

Bachelor of Engineering (Honours) Mechatronic (Jun 2016 – Mar 2019)
Tunku Abdul Rahman University of Management and Technology (TARUMT)
CGPA: 3.7550
Publication on AI topic: A posture recognition model dedicated for differentiating between proper and improper sitting posture with Kinect sensor (Conference: 2019 IEEE HAVE)

Diploma in Technology (Mechatronics) (May 2014 – May 2016)
Tunku Abdul Rahman University of Management and Technology (TARUMT)
CGPA: 3.9473

Language

Mandarin, English, Malay

References

Dr. Beh Jyh Jiunn
Former superior
Assistant Manager (Former)
Top Glove International Sdn. Bhd. (Former)
017-4530799

Andy O'Brien
Assistant Manager
Top Glove International Sdn. Bhd.
013-5576247