Jian-An Lin | Software Engineer



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Education

Google IT Automation with Python Specialization

Project Management Professional (PMP)® Training Program

Dec 2022 Oct 2022

National Formosa University

Master of Mechanical Engineering, GPA:3.6/4.0

Best Conference Paper Award of 4th IEEE ECICE

Sep 2020 - Oct 2022

Oct 2022

Master's Thesis: "Application of Deep Neural Network in CNC Interpolation Parameter Optimization and Machining Performance Prediction"

Bachelor of Mechanical Engineering

Sep 2016 - Aug 2020

Champion of National Thematic Competition

Nov 2019

Champion and Technical Excellence Award of 2nd TEL Robot Combat

Dec 2018

Experience

Code Reviewer

San Francisco, CA | Remote

Taelor | Volunteer

Feb 2022

- Collaborated with 5+ volunteers to evaluate, document, and report the architecture, formatting, and quality of 3+ sections of React.js and Laravel code.
- Analyzed over 300+ lines of code in the product recommendation algorithm, and presented the findings to the CEO through mind maps.

Software Engineer

Changhua, Taiwan | Remote

Chin Fong Machine Industrial Co. Ltd | Academia and Industry Collaboration

Aug 2020 - Aug 2021

• Implemented 9 servo stamping process curve interpolation algorithms using C++/Qt and TwinCAT on punch machines weighing over 2 tons.

Projects

Open Source Contributor

Google/Latexify | A library to generate LaTeX expression from Python code

Nov 2022 - Present

- Fixed bracket display bug, refactored over 200+ lines of code, passed over 600+ unit tests, and submitted more than 5+ commits with detailed messages to pull request.
- Improved continuous integration and reduced internal testing time by 10% by adding code style integration tools to CI/CD and a testing script to ensure standard conventions in developer-submitted code.

Founder | Software Engineer

Fingerstyle Taiwan | An open source community collecting information for guitar lovers

Sep 2022 - Present

- Led a development team of more than 5+ engineers and designers, including front-end, back-end, and UI/UX, to develop a web application using Next.js/TypeScript and Django/Python. (still in progress)
- Developed more than 3+ RESTful APIs using Docker and TDD method and deployed to AWS EC2, integrated with Jenkins for automated testing, and used Puppet for server configuration management. #ref
- Managed a social media account for over 5+ years, with over 5000+ followers.

#ref

Software Engineer

Robot Arm Combat, HIWIN Technologies Corp

Mar 2020 - Aug 2020

- Created an automatic hand-eye calibration system using OpenCV and C++/Qt, achieving image calibration within 8 minutes and improving the visual positioning accuracy of the robotic arm to within 1mm.
- Implemented an object real-time detection system using Tensorflow/Mask R-CNN, integrated with a robotic arm for classifying and grasping 3 different types of recyclable objects. #ref
- Integrated an algorithm for a robotic arm to play pool and completed the action within 15 seconds. #ref

Team Leader | Software Engineer

Robot Combat, TEL

July 2018 - Dec 2018

- Led a team of 8 people in collaborating on solving 3 designated problems over a 6-month period, using Agile-like methodologies and Kanban boards for project management.
- Developed a 360-degree omnidirectional mobile robot using RobotC(C language based) to complete obstacle avoidance challenges and participate in a robot sumo competition.

Technical Skills

Programming Languages: C/C++, Python, Javascript, MATLAB, TypeScript, Bash, SQL Frameworks and Tools: Git, TensorFlow, Qt, OpenCV, Docker, Next. js, Django, Jerkins, Nginx, Puppet

