Ryuji Kow Jie Si

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LinkedIn | GitHub | Personal Website

EDUCATION

Bachelor of Engineering, Major in Computer Engineering   **Aug 2021 – Jun 2025**
Grade Point Average: 4.5/5, Honors (Highest Distinction)

WORK EXPERIENCE

EquityZen   **Jan 2024 – Dec 2024**
Software Engineering Intern
- Built a RESTful API consumed by Yahoo Finance, integrating private equity data for seamless external access.
- Developed an Order Book matching system, boosting trade efficiency by 25%.
- Improved site load times by 20% and ensured scalability for a growing user base.
- Delivered key product updates through agile workflows, enhancing system reliability

Feeveo (Automation Startup)   **Feb 2023 – Apr 2023**
Engineering Intern
- Developed and tested the control system for an Autonomous Ground Vehicle (AGV) over 3 months.
- Implemented stepper motors for precise direction control via a microcontroller using the Modbus protocol.
- Optimized movement, resulting min a 30% reduction in positional and movement errors.

Purely (Skincare and Beauty E-Commerce)   **Jun 2022– Jun 2024**
Co-Founder
- Boosted online visibility and reach by enhancing SEO, resulting in increased impressions and audience engagement by over 50%.
- Achieved 15% cost savings through optimized supplier contracts and supply chain improvements.
- Negotiated a consignment sale agreement with LUMINE Singapore, strategically placing Purely products in a prominent retail location.

PROJECTS

Autocare, Autonomous solution for transport of blood components
- Deployment of autonomous solution for transport of blood components in hospitals
- Optimized workflow efficiency in transportation, resulting in a 60% reduction in delivery time.
- Developed full-stack software for robot interface and monitoring using Django and React.

OIO, Musical Instrument
- Designed and prototyped a musical instrument that utilizes discs containing music layers, allowing for the mixing of various tracks.
- Integrated PN532 RFID reader, NTAG 213 tags, Raspberry Pi 3B+, and breadboard to make working prototype.

SKILLS

- **Technical:** C/C++, Python, R, Verilog, Java, JavaScript, HTML, CSS, React, Django, Git, LiDAR, ROS, FPGA, RFID, and CAD
- **Non-Technical:** Design Thinking, Communication, Teamwork, Adaptability, and Problem Solving
- **Languages:** English (native proficiency), Chinese (working proficiency), and Japanese (limited working proficiency)
- **Certifications:** Wiley Certified Data Analyst
- **Hobbies:** Soccer and Golf