

ZULFAQAR HAFEZ

+65 9882 5024 | zulfaqarhafez@gmail.com | www.linkedin.com/in/zulfaqar-hafez | <https://zulfaqarhafez.vercel.app> | <https://github.com/ZulfaqarHafez>

EDUCATION

Singapore Institute of Technology (SIT) **Sept 2024 - Present**

Bachelor of Science (Honours) in Applied Artificial Intelligence

- A multidisciplinary program combining machine learning, data analytics, and software engineering, designed to train industry-ready AI professionals.

Republic Polytechnic (RP) **Apr 2019 - May 2022**

Diploma in Business Information Systems

EXPERIENCE

Product Manager (Citizen Developer), People's Association **Sept 2025 - Present**

- Manage *Churp*, a CIT-funded digital solution optimizing community garden plot allocation for transparency and efficiency.
- Lead agile sprints and cross-functional teams (developers, mentors) to drive the pilot launch in Tengah.
- Oversee UI/UX validation and stakeholder management to align technical deliverables with civic engagement goals.

Order Management Specialist Intern, Infineon Technologies **Mar 2021 - Aug 2021**

- Engineered a Python automation system (Selenium, BeautifulSoup) for market data collection, reducing manual research time by 80%.
- Coordinated with regional logistics managers (Japan) to streamline delivery note creation and ensure accurate shipment processing.

CO-CURRICULAR ACTIVITIES/COMMUNITY SERVICE

President, SIT Magical Hearts **Jan 2025 - Jan 2026**

- Directed inclusive outreach programmes, including workshops for elderly and special-needs groups.
- Grew volunteer engagement by 50% through improved event strategy and publicity.
- Managed executive operations, logistics, and external partnerships with SIT advisors and NGOs.

PROJECTS

EduQuery SG **Sep - Nov 2025**

- Led full-stack development of an educational database, managing complex datasets for schools, CCAs, and MOE programmes.
- Engineered a hybrid architecture integrating Relational and NoSQL databases to support analytics.
- Delivered intuitive data visualization tools to simplify decision-making.

Real-Time Multi-Label PPE Detection System | SIT (Academic Project) **Sep - Nov 2025**

- Built a custom PPE detection model (YOLOv8) with **0.64 mAP50**, integrating **MediaPipe** for anatomical validity checks.
- Executed a data-centric training strategy, reducing a noisy 100k dataset to 6k balanced images to maximize generalization.
- Utilized **Grad-CAM** for model explainability and performed iterative error analysis to fine-tune hyperparameters across 5 training cycles.

FairWork Contract **July - Aug 2025**

- Built a document translation platform using **Next.js** and **OCR**, integrating the **SEA-LION** LLM to provide regionally accurate translations for migrant workers.
- Implemented **layout preservation algorithms** to maintain original document structure and utilized NLP to simplify complex legal jargon into plain language.
- Delivered a scalable, multi-language solution (English, Mandarin, Malay, Tamil, Hindi) focused on democratizing access to legal rights.

COMPETITIONS

SIT HackRift 2025 – Finalist

Dec 2025

- Attained Finalist status by developing *GuideMeSG*, an inclusive navigation app for Persons with Intellectual Disabilities (PWIDs).
- Integrated LTA DataMall APIs to solve real-world accessibility challenges, translating user research into a functional UI/UX prototype

Hack for City 2025 – SMU Smart City Society (Finalist)

Mar 2025

- Developed a ResNet computer vision model for automated trash classification to optimize waste management.
- Delivered a full-stack prototype (Frontend + Model) within the hackathon timeframe, integrating real-time visual analytics.

Community Hackathon 2025 – Open Government Product (CIT-Funded)

June 2025 – July 2025

- Secured S\$20,000 in CIT funding by pitching *Churp*, a CivicTech platform digitizing community garden allocation.
- Led product strategy and UI development, successfully transitioning the prototype into a pilot-ready solution for the People's Association.