

# ZULFAQAR HAFEZ

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

## EDUCATION

<b>Singapore Institute of Technology (SIT)</b> <i>Bachelor of Science (Honours) in Applied Artificial Intelligence</i>	<b>Sept 2024 - Present</b>
• A multidisciplinary program combining machine learning, data analytics, and software engineering, designed to train industry-ready AI professionals.	

<b>Republic Polytechnic (RP)</b> <i>Diploma in Business Information Systems</i>	<b>Apr 2019 - May 2022</b>
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## EXPERIENCE

<b>Product Manager (Citizen Developer), People's Association</b>	<b>Sept 2025 - Present</b>
• Manage <i>Churp</i> , 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.	

  

<b>Order Management Specialist Intern, Infineon Technologies</b>	<b>Mar 2021 - Aug 2021</b>
• 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

<b>President, SIT Magical Hearts</b>	<b>Jan 2025 - Jan 2026</b>
• 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

<b>EduQuery SG</b>	<b>Sep - Nov 2025</b>
• 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.	

  

<b>Real-Time Multi-Label PPE Detection System   SIT (Academic Project)</b>	<b>Sep - Nov 2025</b>
• Built a custom PPE detection model ( <b>YOLOv8</b> ) with <b>0.64 mAP50</b> , integrating <b>MediaPipe</b> for anatomical validity checks. • Executed a data-centric training strategy, reducing a noisy 100k dataset to 6k balanced images to maximize generalization. • Utilized <b>Grad-CAM</b> for model explainability and performed iterative error analysis to fine-tune hyperparameters across 5 training cycles.	

<b>FairWork Contract</b>	<b>July - Aug 2025</b>
• Built a document translation platform using <b>Next.js</b> and <b>OCR</b> , integrating the <b>SEA-LION LLM</b> to provide regionally accurate translations for migrant workers. • Implemented <b>layout preservation algorithms</b> 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

<b>SIT HackRift 2025 – Finalist</b>	<b>Dec 2025</b>
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- 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.