

ELSTON YEO TIAN HONG

FULL-STACK AI DEVELOPER

Singapore

Phone / WhatsApp: [available upon request] | Email: elstonyth@outlook.com | LinkedIn: linkedin.com/in/elstonyth

SUMMARY

Full-Stack AI Developer with a background in data analytics, automation, and cloud platforms. Builds internal tools, web apps, and Python-based automations that reduce manual work and improve data quality. Comfortable working across the stack—from data and infrastructure (SQL, GCP, Docker, VPS) to simple frontends (HTML/JavaScript). Currently focused on AI-powered automation, self-hosted solutions, and privacy-first digital products.

CORE SKILLS

- Programming & Data: Python (Pandas, NumPy), SQL, Rust, JavaScript, HTML/CSS
- AI & Automation: Generative AI workflows for text/data tasks, Python automation scripts, Google Sheets automation
- Web & Platforms: Internal tools and portals (HTML/JavaScript, Google Sites), basic full-stack patterns (frontend + Python/SQL backends)
- Cloud & Infra: Google Cloud Platform (GCP), Docker, VPS-based self-hosting
- Tools & Operations: AutoCount ERP, Google Sheets, Advanced Excel (PivotTables, VLOOKUP), backup & recovery, IT troubleshooting

EXPERIENCE

Data Analyst | Opus IT Services Pte. Ltd. (Contractor at Roche) | Singapore

Jan 2024 – Jun 2025

- Queried and validated large-scale datasets using SQL, reducing data errors and supporting compliance with pharmaceutical regulations.
- Built internal project portals with Google Sites, improving project turnaround time by approximately 40%.
- Automated data workflows using Python and Google Sheets, cutting manual entry errors by roughly 30%.
- Partnered with QA and Operations stakeholders to deliver tailored digital solutions that improved reporting efficiency and collaboration.

Senior IT Support & AutoCount Specialist | Ingenious Business Solutions Pte. Ltd. | Singapore & Malaysia (Hybrid)

Jul 2022 – Nov 2023

- Developed an IT help-desk portal with HTML and JavaScript, reducing average support downtime for more than 100 users.
- Provided AutoCount ERP support including SQL troubleshooting, backup, and recovery, improving system reliability and uptime.
- Trained over 10 staff and created clear technical documentation, decreasing repetitive support queries by about 25%.
- Managed the IT asset lifecycle from procurement to disposal, optimising inventory usage and costs.

PROJECTS

- AI Workflow Automation (Self-Learning): Building Python-based automations that integrate generative AI for text and data tasks, exposing them through simple web-style interfaces for non-technical users.
- Self-Hosting & Privacy Lab: Running Dockerised self-hosted services (e.g., Nextcloud, Vaultwarden) on VPS infrastructure to explore privacy-first alternatives to SaaS tools.
- Tech Tips & Knowledge Sharing: Documenting privacy-first practices, self-hosted setups, and automation workflows to help others reduce reliance on third-party platforms.

EDUCATION

- Bachelor of Computer Science (Hons) | Oxford Brookes University | Graduated 2021
- IGCSE O Level | Seri Omega International School | Graduated 2019