

PHOEBE LAU

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WORK EXPERIENCE

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| Systems on Silicon Manufacturing Company (SSMC) – Technology Development <i>Internship Programme (VBA Automation, Semiconductor Operations, Technical Documentation)</i> | Mar 2023 – Aug 2023 Singapore, SG |
| <ul style="list-style-type: none">Developed Excel macros from scratch to streamline workflows, improving both efficiency and data accuracy.Managed wafer logistics, coordinating and handling wafers into and out of the fabrication plant for colleagues.Prepared and maintained weekly team reports, consolidating key metrics and progress updates for management review. | |

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| IT Block – Tech Support <i>IT Technician Intern (IT Hardware & Software Support, Research Skills)</i> | Jun 2021 – Aug 2021 Singapore, SG |
| <ul style="list-style-type: none">Manages and compiled weekly security reports to support ongoing risk monitoring and compliance.Assisted clients with troubleshooting and resolving technical issues across hardware, software, and network environments.Provided end-user IT support and services, ensuring timely resolution and clear communication.Coordinated and completed product deliveries to customers, maintaining accuracy and service quality. | |

EDUCATION

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| Singapore Institute of Technology (with University of Glasgow) <i>Bachelor of Science in Computing Science</i> | Sep 2024 – Oct 2027 |
| <ul style="list-style-type: none">Coursework: Data Structure Algorithm, Embedded Systems, Database Systems, Operating Systems, Web Programming, ... | |
| Temasek Polytechnic <i>Diploma in Computer Engineering, Specialised in IoT</i> | Apr 2022 – Mar 2024 |
| <ul style="list-style-type: none">Coursework: Full Stack Development, Data Visualization & Analytics, Robotic Process Automation (RPA), System & Network Integration, Mobile Device Applications Development, ... | |
| Institute of Technical Education College Central <i>Higher Nitec in Electronics Engineering, Specialised in IoT</i> | Jan 2020 – Mar 2022 |
| <ul style="list-style-type: none">Coursework: Digital & Analogue Principles & Applications, Electrotechnology, Advanced Applied Electronics, ... | |

PROJECTS

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| ReKindle (Design/Innovation Challenge by Dell Technologies and Lion Befrienders) | 2025 |
| <ul style="list-style-type: none">Built a containerized social platform using Docker to connect isolated seniors with peers and volunteers.Implemented real-time messaging, automated welfare check-ins, and event scrapper to reduce social isolation and monitor senior wellbeing. | |
| Hospital Care with MQTT | 2025 |
| <ul style="list-style-type: none">Developed an energy-efficient IoT system using Raspberry Pi with motion-triggered lighting and ventilation control, and automated medication dispensing functionality controlled via web application. | |
| Carousel Book Display Process Automation | 2024 |
| <ul style="list-style-type: none">Developed an RPA automation using UiPath to streamline library cataloguing by extracting book metadata from web sources, validating cover images, updating carousel displays, generating detailed Excel reports, and delivering automated completion notifications through email with acquisition metrics. | |
| Bus Scheduling App with Android Studios | 2024 |
| <ul style="list-style-type: none">Developed a real-time transit mobile application using Android Studio, PHP, and SQL featuring dynamic bus arrival predictions sorted by proximity, weather API integration, and administrative controls for schedule and user management. | |

TECHNICAL SKILLS AND TOOLS

Programming languages/frameworks: Python, Java, C, C++, C#, JavaScript, SQL

Web/App: HTML, CSS, React, Node.js, REST APIs, Android Studio (Kotlin/Java)

Data/Tools: PostgreSQL, MongoDB, Excel, NumPy, Pandas, UiPath (RPA)

IoT/Embedded: Raspberry Pi, Arduino, MQTT, basic PCB soldering & electronic components

DevOps/Platforms: Git, GitHub, Docker, Kubernetes, Linux

Certifications: Docker Fundamentals, Kubernetes Fundamentals, Google IT Support

Soft Skills: Adaptability, Time Management, Critical Thinking, Problem Solving