

TOH XUAN HUEI RUTH

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Work Experience

AI Singapore

Product Engineer

Jan 21 – Present

- Build a generative AI web application using ReactJS, Flask and MySQL
- Develop and integrate the frontend of a Federated Learning as a Service web application using VueJS
- Lead engineer maintaining the open source RPA software TagUI
- Train users on TagUI/RPA through learning website built using ReactJS and modular video courses
- Develop productivity tools for TagUI with Microsoft Office VSTO Add-ins
- Improve application life cycle by implementing CI/CD pipelines with GitHub Actions

Scoot Tigerair Pte Ltd

IT Analyst

Sep 19 – Sep 20

- Conceptualised and developed internal eNamecard portal (Stack: HTML, JS, CSS, Azure MSAL (SSO), AWS S3)
- Led the set-up of in-house RPA infrastructure (Automation Anywhere)
- Supported RPA related functions as BA/Developer/Infrastructure Engineer
- Independently solutioned RPA solutions for 3 use cases using Automation Anywhere through proper SDLC from requirement gathering, designing, developing, testing, deploying and documentation
- Co-managed various IT projects by liaising with external vendors and internal stakeholders

DNV (Digital Hub Singapore)

Software Engineering Intern

Mar 19 – July 19

- Developed front-end web applications using Angular framework with Leaflet and Three.js libraries for digital twin web application
- Independently delivered Proof of Concept prototype to client using ArcGIS Web AppBuilder in 15 working days
- Designed wireframes of web applications using UXPin based on relevant UI/UX principles
- Researched on feasibility of Azure IoT Edge Solutions for smart cities

SP Group

Gas Network Planning Intern

May 16 – Dec 16

- Analysed fluid flow and ran feasibility studies on Singapore's gas network using Synergi Gas
- Utilised Synergi Gas to develop low-pressure distribution network models
- Automated pre-consultation replies using VBA

Education

Graduate Diploma in Systems Analysis, National University of Singapore

Aug 18 – Aug 19

Bachelor of Engineering (Mechanical), Honours (Distinction), National University of Singapore

Aug 14 – Jul 18

Awards

- Microsoft Code; Without Barriers 2023 Winner
- MPA Youth Creativity Award 2016 Gifts Category Finalist (Top 10)
- JTC Case Challenge 2016 Finalist (Top 6)

Skills

- C#, .NET, SQL, HTML, CSS, JavaScript, React, Vue, Angular, Python, Flask, Figma, UXPin