

Joachim Tan



Joachim.Stanislaus.tan@gmail.com

FULL STACK DEVELOPER



EDUCATION

BSc Computer Science

University Of Exeter

2022- May 2024

- [Dissertation](#) on: Ant Colony Optimisation applied to the Police Patrol Routing Problem.

Diploma in Computer Engineering

Singapore Polytechnic

2017-2020

- Vice Captain & Treasurer of the Waterpolo Team

RELEVANT VOLUNTEER EXPERIENCE

Vice President

Exeter Computing Society

Jul 2023 - Jun 2024

- Led the society, including, but not limited to, strategic planning, devising sponsorship and partnership strategies, and event-planning
- Organised a 4 session flutter workshop with over 100 attendees
- Organised a 4 session react workshop with over 100 attendees
- Organised Hack South West with over 100 attendees
- Planned and organised career talk sessions

President; Co-Founder

United Kingdom Singapore STEM Society

Jul 2022 - Nov 2024

- Led the society, including, but not limited to, strategic planning, devising sponsorship and partnership strategies, and event-planning
- Planned and organised career talk sessions with government organisations such as [IMDA](#), [MINDEF](#), [GOVTECH](#), Dyson & Google
- Led the rebuild of our website ([uksss.uk](#))

Technology Director

United Kingdom Singapore Students Council

Nov 2022 - Apr 2024

- Maintain & Update website; SEO focused
- Maintain & update communication channels; email systems, email list, bots

REFERENCES

Shaun Goh, Lecturer

shaun_goh@sp.edu.sg

Regina Moh, Senior Talent Acquisition

Partner

reginamohhy@gmail.com

RELEVANT EXPERIENCE

Software Engineer, UBS

Sept 2024 - Present

- Working on building reusable components for pre-trade & post-trade, equity & fx transaction cost analysis, fx order management interface.
- Developed a feature to export grid data to excel with relevant formatting to improve workflow for users. (UI Side)
- Built data pipeline to Power BI as a stopgap for a decommissioned app, to maintain user access to data, allowing them to manipulate and visualise data.
- Identified and eliminated a critical bottleneck in a pre-trade app, slashing report generation time from 29,809 ms to 0.67 ms (99.99% performance gain).
- Added support for automated execution of time-based FX orders with dynamic scheduling, reducing manual intervention and improving client autonomy.

Backend Developer, Hatless Studios

Apr 2023 - Aug 2024

- Design, build, test and maintain high performance, reusable and reliable applications.
- Worked on 6 projects, most notable being the use of graph db (Knowledge Graphs) to facilitate matching algorithms.
- Develop RESTful APIs based on Figma designs and core app functionality.

Software Engineer Intern, UBS

Jun 2023 - Aug 2023

- Built complex client-side table functionalities for **FINOS project VUU**
- Smart swapping system between server & client side functionalities.
- Benchmarking functionalities using benchmark.js
- 100% reduction of Proof Of Concept server cost. Client-Side functionality allows projects to perform demos without a server.
- Increase developer productivity; frontend no longer reliant on server for testing functionality, can be continuously tested with the client side functionality.
- Faster time to market due to reduced developer downtime.

Data Analyst, SG Enable

May 2022 - Sept 2022

- Lead, created & developed desktop software to generate graphs and automate data collection & data sorting. Improved productivity & reduced visualisation time by 50%
- Perform data analytics to gain further insights, predict trends & sudden spikes in assistance requests to better prepare infrastructure to meet sudden demand
- Tools: Python, Openpyxl, Pandas, PyQt5

Instructor, Little Coder

May 2022 - July 2023

- 900+ hours taught, 80+ students aged 5-16
- Languages: Python, Java, Lua, JavaScript, HTML5, CSS
- Involved in Curriculum Development & conducting classes.

Certifications

Microsoft:

Azure AI Fundamentals, Azure Data Fundamentals, Azure Fundamentals