

JESHUA LIN

Network and Cloud Infrastructure Solutions Architect

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EXPERIENCE

Quantum Network Solutions Engineer/IT Manager

SpeQtral

📅 Jan 2022 - current

📍 Singapore

Software Engineering Intern

📅 May 2021 - September 2021

- Architecting and deploying quantum key distribution solutions to fortify on-premises, datacentre, and cloud workloads for the post-quantum age.
- Maintaining and managing corporate internal IT infrastructure and resources.
- Developed, maintained, and improved internal QKD modelling and orbit analysis tools for satellite constellation benchmarking.
- Supported cross-functional teams in conducting mission design studies, deploying cloud infrastructure and continuous integration workflows.

Fluid Dynamics Intern

Dyson (Research, Design and Development - Fluid Dynamics)

📅 May 2020 - July 2020

📍 Singapore

- Created tooling to complement and automate the team's existing Fluent CFD workflow (meshing, setup, solving, and post-processing).
- Produced potential time savings of over 50 man-hours per design optimization study through automation.

Research Intern

Institut für Energietechnik, Hochschule für Technik Rapperswil

📅 July 2019 - September 2019

📍 Switzerland

- Developed computer-aided geometry optimization workflows for the lift generating component of an airborne wind turbine in collaboration with an industrial partner.

EDUCATION

B.Eng. (Hons) in Aerospace Engineering (REP), MSc. in Technology Management

Nanyang Technological University

📅 August 2017 - December 2021

📍 Singapore

- The Renaissance Engineering Programme (REP) is a 4½ year dual-degree programme in engineering and business.

SKILLS



Cloud Infrastructure

AWS, Cloudflare, Terraform



System Administration

Linux, Docker, Proxmox, Nix, bash



Programming

Python, Javascript/TypeScript, Svelte, React



Organizational IT

Microsoft 365 administration, Windows deployment and troubleshooting, networking and Wi-Fi



Graphic Design

Figma, Inkscape, GIMP, Blender

AWARDS



Shopee Product & Design Challenge

First Runners-up (2021)



Shell Imagine the Future

National Champions, Regional Runners-up (2018/19)



National Olympiad of Informatics

Bronze Medallist (2011)



S'pore Games Creation Competition

Best Technical Achievement (2011)

SIDE PROJECTS



yakboard

Yet another kanban board, a project to teach myself React.



The Daily Telegram

A Telegram bot which provides a daily digest of subscribed RSS feeds.



@zhngbot

A simple text-transforming Telegram inline bot to spice up your messages.



Advent of Code 2020

A yearly coding challenge taking place from 1-25 December. Achieved 44/50 stars.