Ng Tze Yang

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Work Experiences

AI Engineer, Data Science & AI, Govtech   Feb 2023 – Present
- Restructure and re-architecting a prominent big data system handling Terabytes of data to improve its robustness, scalability and cost-effectiveness.
- Responsibilities include designing and implementing robust data processing pipelines, optimizing big-data query performance, and developing scalable cloud native solutions to meet the project's complex requirements.

Product Engineer, Abnormal Security   Mar 2021 – Feb 2023s

Series C email security startup valued at USD $4b, backed by Menlo Ventures & Greylock Partners
- Worked closely with product managers to ship multiple product-driven features with velocity.
- Integrated **event-driven** customer notification system with Azure Sentinel & IBM Qradar that secured several big customer wins.
- Leveraged **Datadog** services to implement end-to-end browser tests that have caught dozens of production bugs, leading to quick fixes and avoided customer complaints.
- Automated the customer onboarding experience that freed up 4 employees' worth of resources.

Senior Software Engineer, Shopee   Jan 2020 – Mar 2021
- Implemented scalable APIs for **Chat Services** with query rates greater than 20K QPS
- Designed distributed server and database service architectures in **Golang**
- Eliminated significant startup time for users with large number of unread messages
- Architecture easily accommodated 10x increase in traffic volume driven by user growth

Education

Nanyang Technological University   Jun 2015 – Dec 2019
Renaissance Engineering Program (REP) - Computer Engineering
- Scholarship Programme focused on a broad-based engineering and business education aiming to nurture the entrepreneurs of tomorrow
- CGPA: 4.7/5.0, First Class Honours
- Extracurriculars: Champion, 2017 IVP Swimming Championships as Team Captain

University Of California, Berkeley   August 2017 - June 2018
Exchange Student at Department of Electrical Engineering & Computer Science
- Champion, UC Davis 2018 Natcar Competition - Autonomous car racing competition using computer vision and advanced control systems

Awards & Achievements

Champion, Bosch Buildings of Tomorrow (BOT) Hackathon 2017
- Analysed the problem of overcrowding at eateries by conducting stakeholder interviews
- Designed a network of IOT sensors that monitored seat occupancies
- Gained expressed interests from judges with a technical demo and presentation of business plan

Software Engineering Skills & Technologies

Programming :	**Python, Golang, SQL, C++, Java, Javascript, CSS & HTML**
Technologies:	**AWS, Terraform, Django, React & Redux, Redis, Kafka, TiDB, Protobuf**
Interests:	**Swimming, Ultimate Frisbee, Jigsaw Puzzles, Dogs & Cats**