

TAN Lai Chian Alan

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Java, Python, HTML, CSS, SQL, Ubuntu, AWS, Vim, IntelliJ

Professional Experience

J.P. Morgan, Software Engineer III, Singapore, Sep 2020 - Present

Currencies & Emerging Markets (Nov 2024 - Present)

- Pricing & Risk Management
- Tech: Python

Graphite Real-Time Payments, Plutus Core Engineering (Sep 2020 - Oct 2024)

- Launched J.P. Morgan's global real-time payments system across [APAC](#), EMEA and [LATAM](#)
- Responsible for core engineering design, development and refactoring of event-driven microservices
- Pioneered the implementation of multiple product flows including payment returns, reversals, and pay by QR
- Represented the engineering team in product oriented discussions and industry testings
- Conducted demos and knowledge sharing sessions to product, development, and testing teams
- Tech: Spring Boot, Kafka, GemFire, OracleDB, React, Jenkins, CloudFoundry, Splunk, Terraform, AWS EKS

GIC, Software Engineer, Singapore, Sep 2018 - Jul 2019

- Collaborated with Product Management team on the revamp of New Product Approval workflow application
- Built frontend application from scratch using Angular 2+ with a focus on seamless UX using Material Design
- Developed APIs for backend server integration with upstream reference data and K2 Five workflow engine
- Gathered requirements from Operational Due Diligence team for the development of a new ODD portal
- Tech: Spring Boot, Angular 2+, MS SQL, K2 Five, Jenkins, ADFS, Active Directory, APIs

DSO National Laboratories, Software Engineer, Singapore, Aug 2016 - Sep 2018

- Developed a signal acquisition module for real-time detection and information extraction in microseconds
- Developed a multi-channel waveform generation module using GPU to support up to 50 parallel streams
- Extended software modules to provide services using RPC frameworks such as gRPC and Apache Thrift
- Tech: C++, CUDA, Intel IPP, Boost, MATLAB, NodeJS, gRPC, Apache Thrift

ShopperBoard, Software Engineering Intern, Singapore, May 2015 - Jul 2015

- Improved user interface of ShopperBoard's website using HTML, CSS, JavaScript, and Optimizely
- Wrote a new activity to display product details for ShopperBoard's Android mobile application
- Increased site content by scraping products from online shops using web crawlers and XPath

NUS Mixed Reality Lab, Software Engineering Intern, Singapore, Apr 2010 - Aug 2010

- Researched on enhancing online shopping experience through product customization features

Projects

Projects and contributions

- Creator of [torchemotion](#), [virtual-piano](#), [ntucourses](#), [mapstruct-csv](#), [design](#)
- Contributor to [instagram-profilecrawl](#), [python-patterns](#)

Leadership Experience

Captain of Nanyang Technological University Canoe Sprint Team for AY 14/15

- Led a team of student-athletes to clinch overall champions for Inter-Tertiary Canoe Championships 2016

Battalion Signal Officer of 5th Singapore Infantry Regiment, Singapore Armed Forces

- Led a platoon of 32 signal operators and liaised with officers to ensure radio communication success

Trombone Section Leader of Woodgrove Secondary School Symphonic Band

- Conducted sectionals during band practice sessions

Education

National University of Singapore, 2017 - 2019

- Master of Computing, Computer Science

Nanyang Technological University, 2013 - 2016

- B.Eng., Computer Science, Second Class Upper Honours, Elective Focus in Artificial Intelligence

Singapore Polytechnic, 2008 - 2011

- Diploma, Digital Media, Director's Honor Roll for Academic Years 2008/2009 and 2010/2011

Achievements & Awards

Brazil PIX Launch, J.P. Morgan, 2022 - [Link](#)

Singapore FAST and PayNow Launch, J.P. Morgan, 2021

Australia New Payments Platform Launch, J.P. Morgan, 2021 - [Link](#)

Group Performance Award, DSO National Laboratories, 2018

Defence Technology Prize, Team (R&D) Award, MINDEF, 2017 - [Advanced Information Security Team](#)

Interesting Final Year Projects, NTU School of Computer Science and Engineering, 2016 - [Virtual Piano](#)