

Matthew Alexander

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Education

National University of Singapore

Bachelor of Engineering (Computer Engineering) with Second Major in Innovation and Design

Singapore

Aug 2017 - Jun 2021

- GPA: 4.31/5.0 (Distinction) - (3.55/4.0)
- Dean's List (Top 5% in cohort) - AY 18/19 Semester 2

Stanford University (Non-Degree Student)

Management Science & Engineering

California, USA

Apr 2020 - Jun 2020

- MS&E178 - Spirit of Entrepreneurship & MS&E472 - Entrepreneurial Thought Leaders' Seminar

Skills

Languages

English (Fluent), Indonesian (Native), Mandarin (Basic)

Programming

C++, NodeJS, SQL, JavaScript, React, React Native, Typescript, Java, HTML, CSS, Python, Swift

Experience

Shuffle

San Francisco & Singapore

Software Engineer

Jan - Dec 2020; Jun 2021 - Present

- Shuffle is a podcast platform that makes listening to podcasts a social experience through comments, reactions, chats and much more.
- Spearheaded web client development [AI Chat Bot](#) of John Green with React, NextJS & Typescript garnering more than 7000 views.
- Engineered main social features such as likes, comments, search on [iOS](#) & [Android](#) with React Native, Redux & Swift.
- Constructed notification service for more than 800 subscribed shows with scheduled Cloud Pub/Sub jobs using Typescript, SQL & NodeJS.
- Devised Instagram Stories-like [Type Mode](#) feature with SwiftUI for podcast video clips.

NUS School of Computing

Singapore

Computer Science Teaching Assistant

Aug - Nov 2019; Jan 2021 - Apr 2021

- Taught & guided a class of students on Software Engineering & Object Oriented Programming in Java.
- Received an average teaching rating of 4.2/5.0 from students taught.

Singtel (Group Enterprise)

Singapore

Software Engineer Intern

May 2019 - Aug 2019

- Spearheaded RESTful API for Singtel CloudShop - Cloud Services B2B marketplace reselling AWS, GCP, Azure with an estimated 7-digit revenue.
- Devised user purchase flow for enterprise clients from sending, automated emails, cloud account provisioning, reset & forgot password.
- Collaborated with lead backend engineer to build service with NodeJS, MongoDB utilizing AWS stack (Lambda, S3, EC2, SES).

OVO (PT Visionet Internasional) - Taralite

Jakarta, Indonesia

Software Engineer Intern

May 2018 - Aug 2018

- OVO is Indonesia's largest financial digital payments platform, worked at Taralite - OVO's P2P lending subsidiary
- Integrated DocuSign API to replace legacy loan confirmation API service with GCP stack (GCS, Cloud Functions) using Node JS & Sequelize to boost efficiency by 30%.
- Directed transformation project with more than 15 stakeholders from product & operations team on new digital signature flow.
- Orchestrated transformation of loan lifecycle for more than 3000 digital loans to be legally binding using digital signatures from DocuSign.

Extracurricular Activities

Developer Student Club NUS by Google Developers

Singapore

Head of Technology - Project Journey

May 2020 - Jun 2021

- Partnered with client (Blessings in a Bag) to identify challenges in current manual volunteering system affecting more than 50 volunteers.
- Supervised team of 6 developers and 2 designers to suggest & implement web application based on aforementioned problems.
- Established [volunteering management platform](#) with React, NodeJS & MongoDB to simplify processes & boost retention by 100%.

NUS Entrepreneurship Society - UNICON

Singapore

Vice President (Head of UNICON)

Jun 2019 - Dec 2019

- Directed team of 26 people to orchestrate UNICON2020 - Southeast Asia's largest student led tech-entrepreneurship conference.
- Boosted sponsorship value by 300% from \$15,000 in previous year to \$60,000 with partners such as AWS, IMDA, OVO & SGINNOVATE.
- Invited more than 30 senior level management speakers from Sequoia, Go-Jek, OVO, Trax, Facebook, Paypal, etc.

Projects & Hackathons

iFatigue

Developed computer vision software to detect sleepy drivers in Python - 1st place AngelHack Grab Hackathon from 30 teams.

Arbitrage Engine

Built arbitrage forex engine with socket.io in Java & NodeJS - 2nd place in Merrill Lynch hackathon amongst 20 teams,

COVID-19 Tracker

Constructed web scraper with BeautifulSoup & Firebase to feed data to website to track spread of COVID-19 in Indonesia.

Watch Together

Developed web app to watch videos with synchronized player as if watching side by side, built with socket.io & JavaScript.