

# 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 (Native), Indonesian (Native), Mandarin (Basic)

### Programming

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

## Experience

### AGMI (Formerly Shuffle)

Singapore

Software Engineer

Dec 2021 - Present

- AGMI is a social Web3 startup focusing on building Web3 profiles and connections between each other.
- Engineered [Make It Snow](#) - crypto giveaway dapp built on Avalanche - wrote smart contract in Solidity with Hardhat to create & claim giveaways.
- Constructed [Oxfrens](#) - displays Web3 activities & assets for wallet, e.g., NFTs, ERC20 tokens on Ethereum with NodeJS, React (NextJS) & ethers.js.
- Built Discord Bot that pairs users in DAO & NFT Communities based on shared on-chain & off-chain commonalities such as NFTs, Discord servers with NodeJS, Typescript, TypeORM, PostgreSQL & Google Cloud.

### Shuffle

San Francisco & Singapore

Software Engineer

Jan - Dec 2020; Jun - Nov 2021

- Shuffle is a podcast platform that makes listening to podcasts a social experience through comments, reactions, chats and much more.
- Spearheaded web client development of John Green with React, NextJS & Typescript garnering more than 15000 views.
- Engineered main social features such as likes, comments, search on & with React Native, Redux & Swift.
- Constructed notification service for more than 800 subscribed shows with scheduled Cloud Pub/Sub jobs using Typescript, SQL & NodeJS.

### 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.

### 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%.

## 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.