

# Joel Khoo

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"I combine experience in enterprise organisations and agile moving startups."



[joelkhoo.github.com](https://joelkhoo.github.com)



## WORK EXPERIENCE

### FWD Group

#### Solution Architect / Full Stack Developer

Dec 2017 - Present

- 2nd Employee in Regional Innovation Centre (for 9 countries in Asia Pacific)
- Rapid prototyping and **productisation** of FinTech use cases (i.e. smart contracts, image recognition)
- Built API micro services in Java (JAX-RS/JOSS) and Javascript (NodeJs/AWS Lambda) for automation projects around marketing promotions and claims processing
- Customised and deployed Tensorflow and FastAI based ML models (based on KNN & RESNET) for automating customer onboarding (eKYC) and underwriting automation
- Developed JoChek eKYC, facial recognition and computer vision system, end-to-end from ML model, to APIs and mobile responsive VueJS based interfaces
- Transitioned legacy systems from on-premise to cloud based serverless and Docker container architecture
- Hired and mentors team of 4 developers

### Learnly Pte Ltd

#### Co-founder, Product Manager & Full Stack Developer

Aug 2015 - Nov 2017

- Built code-functional MVP and **raised USD220,000** funding from investors & angels
- Coded full fledged **AngularJS**/Ionic mobile applications for both iOS and Android
- Built a chatbot, integrated with **RESTful AWS & NodeJS** backend
- Reached 10,000 installs and managed team of 4 developers
- Created marketing viral videos reaching 200,000 views in 1 week with USD300 budget

### OCBC Bank

#### Business Analyst, Technology Solutions (Consumer)

Jul 2014 - Aug 2015

- Batch of 2014 OCBC Young Bankers Graduate Programme
- **Solution architect** new business process for wealth unit, with 25% reduction in unit costs and headcount
- Assistant Project Manager for enterprise-level OCR module
- Prototyped a chatbot for increasing engagement with Gen Y consumers

### Visa Inc

#### Summer Intern, Emerging Products & Innovation

May - Aug 2013

- Prototyped a mobile wallet payments solution, awarded SGD1500 and reviewed for patenting
- Wrote branding visual policies and risk mitigation framework for **mobile payments** solutions
- Built dashboard & competitive analysis of EMEA mobile payments market and products

### Singapore Management University

#### Research Assistant

Mar 2012 - Jan 2013

- Supported **statistical research** project studying the economic fallout of Thailand's 2011 monsoon floods
- Developed **Java & SQL** data spidering program to aggregate 10 years of data on 20,000 individual firms
- Data cleaning & preparation for **econometric analysis** of Thailand's industrial performance

## EDUCATION

### Singapore Management University

Aug 2010 - May 2014

- Cum Laude in BSc Economics with major in Information Systems
- Distinctions in **Object Oriented Development, (SQL) Data Management, Process Modelling, Accounting Information Systems, Computing Analysis Tool, Information Security, Labour Economics**
- Relevant courses in statistics/applied data research: **Statistical Theory, Applied Econometrics**
- Semester exchange at **McGill University (Canada)** in 2013

## SKILLS AND INTEREST

- **Languages:** English (native) and Mandarin (proficient)
- **Development Language:** Javascript (AngularJS, VueJS, Express), Python, Java
- **Development Tools:** Docker, Git, JIRA

## CERTIFICATION

- AWS Certified Solution Architect Associate (Jun 2018-2021)
- AWS Certified Developer Architect Associate (Jun 2020-2023)