

# Ethan Mok Ming Foong

*Improving the world through the power of scalable technologies*

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## WORK EXPERIENCE

### Software Engineer, Hanalytics (Singapore)

Oct 2017 – Ongoing

- Development and optimization of Qt application to support the search and modification of patient records
- Design of module to support 3D visualization and interaction with predicted tumors from the machine learning team
- Setup and maintenance of CI/CD Workflow
- Worked with doctors in Beijing to collect key user requirements

Tools: VTK, ITK, Qt, ElasticSearch, Jenkins, Git

### Software Developer, Datarama (Singapore)

Jun 2017 – Sep 2017

- Design of graph visualisation and database to search and display a graph with over 1 million business entities
- Design and implementation of ETL pipeline to integrate data obtained from various data vendors
- Automated scrubbing of database with a focus on Machine Learning problems in Entity Resolution

Tools: Neo4j, MSSQL, MongoDB, ElasticSearch, EC2 & S3, pandas, sklearn, Ember

### Software Engineer, Motivo Inc. (San Francisco Bay Area)

Jan 2016 — Dec 2016

Lead developer for a custom application to support search and navigation of a specialised graph with 2 billion nodes

- Design & development of application that integrates three major technologies (Neo4j, JavaFX & GraphStream)
- Design of schema, deployment & testing of Neo4j Server to support traversal of graph up to 19k nodes/s
- Worked with technical team & users to improve the usability and accessibility of the application

### Software Intern, Jublia (Singapore)

May 2015 — Jul 2015

- Redesigned NLP algorithm to improve accuracy of web scraper for company profiles from 59% to 87%
- Design of personalized report to display event networking ROI based on insights obtained from 100k user profiles

## EDUCATION

### Georgia Institute of Technology, #8 ranked University in CS, M.Sc. (Computer Science)

Aug 2017 - Ongoing

**Specialization:** Machine Learning & Computing Systems **GPA:** 4.0/4.0

**Courses:** Operating Systems, Computer Networks, Information Security, Machine Learning, Computer Vision

### Stanford University

Jan 2016 — Dec 2016

**Courses:** Machine Learning, Computational Methods for Biomedical Image Analysis

### National University of Singapore, B.Eng. (Chemical Engineering) (Hons.)

Aug 2014 — May 2017

**Honours:** Honours (Distinction)

**GPA:** 4.46/5.00 (3 Years Accelerated Honours)

**Awards:** Global Engineering Programme Scholarship (Top 1% of Engineering), NUS Overseas College Scholarship

### Raffles Institution, GCSE 'A' Levels

Jan 2006 — Dec 2011

## EXTRA-CURRICULAR ACTIVITIES

### Orbital 2015, Gemini Award (Silver equivalent)

May 2015 — Aug 2015

Design and deployment of Django web platform to recommend and schedule events between Facebook friends.

### Innoventure 2014, Finalist

Aug 2014 — Mar 2015

Designed, prototyped and pitched a portable dispensing platform for distribution of gasoline with Total

## SKILLS

**Languages:** Python, Java, JavaScript, SQL, Golang

**Cloud:** AWS, Heroku

**Version Control:** Git

**Database:** Neo4j, MSSQL, ElasticSearch, MongoDB

**Automation:** Jenkins

**Containerization:** Docker

**Web Frameworks:** Django, Ember

**Data:** NumPy, pandas

**GUI:** JavaFX, Android, Qt