

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
- Worked closely with the leading doctors in radiology at Beijing to understand user needs and design new features
- Setup and maintenance of CI/CD pipeline and workflow

Tools: VTK, ITK, Qt, ElasticSearch, EC2, 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

ACHIEVEMENTS AND AWARDS

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, Scala, 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