

# Tung Huynh

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## WORK EXPERIENCE

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### Senior Software Engineer - ML and Data Platform

1 yr 5 mos | **May 2019 - Present**

*Ficus.ai - SEEDCOM*

*Singapore*

- Design and deploy a lambda-architecture data platform to extract, process, validate massive heterogeneous data.
- Construct data/ML pipelines to feature engineer, train, and test models; deploy RESTful API services to serve customer-centric solutions such as product recommenders, LTV prediction, customer segmentation, churn prediction.
- Build a multi-channel tracking systems (webs, apps, offline stores) to enhance recommendation systems and A/B testing.
- Develop a new scalable data visualization system; migrated data from old systems.

**Selected Achievements:** • Gracefully launched the data platform that processes data of 4+ million customers.  
• Improved MRR (Mean Reciprocal Rank) of ranking methods by 21% in 3 months.  
• Optimized and reduced 30% query cost of reporting systems on average.

**Advanced Tech Skills:** ML/Data Platform Architecture, ETL, Deep Learning, RecSys, Tracking Systems, A/B Testing  
GCP, k8s, Kubeflow, Kafka, Nifi, Spark, Pandas, DASK, cuDF, BigQuery, Airflow, Tableau

### Graduate Research Assistant

1 yr | **Aug 2019 - Aug 2020**

*Computational Physiology Lab, UH & UTHealth (Part-time)*

*Houston, TX*

- Applied advanced statistical methods for analysis & hypothesis testing; built ML models to predict anti-depressant response.
- Extracted, transformed, applied data quality control on multi-modal + time-series signals from physiological sensors.

**Selected Achievements:** • Increased AUC of ML model to 13%.

**Advanced Tech Skills:** Digital Signal Processing, Time-series analysis, RNN | Python, R, FFT, Tensorflow, PyTorch

### Software Engineer

3 yrs 7 mos | **Nov 2015 - May 2019**

*Fiuzu Pte. Ltd.*

*Singapore*

- Built a trip planning optimization algorithm and an attraction recommender based on personal travel preferences.
- Designed, developed, deployed high scalable web messaging applications and RESTful API services.
- Prepared material and coach new interns.

**Selected Achievements:** • Winner of Samsung Regional Mobile App Challenge.  
• Winner of Singtel Acceleration Challenge.

**Advanced Tech Skills:** Web/Mobile Apps, TDD, RESTful API, Job Queue, Batch/Streaming Data, DevOps, CI/CD  
Java, Python, JS, SQL, Spring MVC, Django, ReactJS, NoSQL, Redis, Airflow, Jenkin, Docker

### R&D Engineer - High-Performance Computing Group

1 yr 10 mos | **Dec 2013 - Oct 2015**

*Institute of High-Performance Computing, A\*STAR*

*Singapore*

- Optimized the performance of a cardiovascular screening application by implementing multiple parallel strategies.

**Selected Achievements:** • Reduced data processing & analytic time by 350% with same accuracy outcome.

**Tech Skills:** Computer Vision, Distributed Computing | C/C++, OpenMP, MPI, Multi-core CPU, GPU, Hadoop

### R&D Engineer Intern

4 mos | **Aug 2012 - Dec 2012**

*Zing Me Social Network - VNG Corporation (Part-time)*

*Vietnam*

- Contributed to building a scalable music recommender for 2 million users of the largest music streaming service in Vietnam.

**Selected Achievements:** • Increased 30% click-through and 15% average session duration.

**Tech Skills:** Recommendation Systems, NLP, Web Scraping | Python, PHP, RDBMS, GateNLP, Scrapy

## PROJECTS

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### Accelerophobia in a Naturalistic Car Driving Study (Master's Thesis)

**Nov 2019 - Jul 2020**

- Extracted, consolidated, and analyzed data from a naturalistic car driving study funded by Toyota. Identified accelerophobic pattern of drivers based on correlations between driving parameters and physiological signals including skin response, respiration, heart rate, and breath rate. Built a predictive model achieving AUC at 0.87. Submitting a paper to CHI 2021.

## LEADERSHIP & ENTREPRENEURSHIP EXPERIENCE

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### Justgola.com - Personalized Trip Planner (A Startup Company)

**Nov 2014 - Jul 2018**

*Co-founder & Head of Product Development - Got seed funding in 2016*

*Singapore*

- Designed and deployed an end-to-end system of website and mobile apps, serving 0.5 million users per month in 3+ years.
- Lead and managed a team of 20 members that consists of developers, BA, QA, designers, and interns.

## EDUCATION

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### University of Houston

Spring 2019 - Summer 2020

*M.S. in Computer Science - Data Analytics (GPA: 3.8/4.0)*

*Houston, TX*

### University of Information Technology - VNU

Fall 2007 - Fall 2012

*B.S. in Information Systems (Top 1 student in the program)*

*HCM City, Vietnam*