Tung Huynh

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WORK EXPERIENCE

Senior Software Engineer - ML and Data Platform
Ficus.ai - SEEDCOM

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

- Designed and deployed a lambda-architecture data platform to extract, process, validate massive heterogeneous data.
- Constructed data/ML pipelines to feature engineer, train, and test models; deployed RESTful API services to serve customer-centric solutions such as product recommenders, LTV prediction, customer segmentation, churn prediction.
- Built a multi-channel tracking systems (webs, apps, offline stores) to enhance recommendation systems and A/B testing.
- Developed 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
Computational Physiology Lab, UH & UTHealth (Part-time)

1 yr | **Aug 2019 - Aug 2020**
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
Fiuzu Pte. Ltd.

3 yrs 7 mos | **Nov 2015 - May 2019**
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
*Institute of High-Performance Computing, A*STAR*

1 yr 10 mos | **Dec 2013 - Oct 2015**
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
Zing Me Social Network - VNG Corporation (Part-time)

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

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. Identify accelerophobic patterns of drivers based on correlations between driving parameters and physiological sensor 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

Justgola.com (Seed funded)
Co-founder & Head of Product Development

Nov 2014 - Jul 2018
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

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

Spring 2019 - Summer 2020
Houston, TX

University of Information Technology - VNU
B.S. in Information Systems (Top 1 student in the program)

Fall 2007 - Fall 2012
HCM City, Vietnam