Tavish **Gobindram**

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EDUCATION

Hong Kong University of Science and Technology

Sept 2015 - May 2019

BEng. Computer Science, First Class Honors

- Awards: Academic Achievement Medal (Fall '18), Dean's List (Fall '17 & '18), Recruitment Scholarship (Fall '15)
- Relevant Coursework: Computer Networks (Graduate), Software Engineering (Honors), Cybersecurity

University of Waterloo

Jan 2018 – Apr 2018

Exchange Student, Mathematics Dept.

Relevant Coursework: Concurrency & Parallel Programming, Machine Learning

EXPERIENCE

Kata.ai, Machine Learning Intern

May 2018 – Aug 2018

- Configured, executed and analyzed over 1k machine learning experiments using Sacred to optimize model performance
- Implemented Bi-LSTM with Variational and Embedding Dropouts (Gal et al.) in Pytorch
- Developed strong baseline for Indonesian Named Entity Recognition (NER) using Conditional Random Field (CRF)

Riotly Social Media, Data Science Intern

Jun 2017 – Aug 2017

- Built Random Forest Classifier for identifying fake Instagram accounts with balanced accuracy of 83%
- Gained experience aggregating crowd-sourced labels from Amazon Mechanical Turk (GLAD, Dawid-Skene, Majority Vote)
- Profiled MongoDB database and sped up queries by **70%** through indexing and splitting collections

Electronic Engineering Dept. @ HKUST, Undergrad Research Assistant

Feb 2017 - May 2017

• Built Android app and NodeJS + Rosbridge backend to enable remote control of a robotic tour guide

Grouptap Limited, Android Development Intern

Jun 2016 - Jul 2016

- Developed and designed an Android application to discover social events and chat with event attendees
- Used Volley for network requests, Socket.io for chat and SQLite and device's file storage to manage data

PROJECTS

Al Cache – Machine Learning for Content Caching

Sep 2018 – Apr 2019

- Built a caching strategy powered by a machine learning model forecasting content popularity
- Al Cache outperforms LRU (up to 9% relative increase in hit ratio) in all network topologies tested
- Semi-Finalist at University-wide Undergraduate Research Competition (HKUST President's Cup)

FavEx – On-demand Deliveries

Dec 2016 - Jan 2017

- Developed an Android application and supporting NodeJS backend for on-demand deliveries within a university campus
- Awarded 1st Place at University-wide Annual Mobile App Development Contest

Vii – Your Digital Travel Agent

Oct 2017 - Nov 2017

• Developed a travel agent chatbot with a Java Spring backend using the LINE API, Dialogflow and Clarifai

VOLUNTEERING

180 Degrees Consulting @ HKUST, Project Manager & Consultant

Feb 2016 – Apr 2017

- Led 10 consultants in developing fundraising strategies tailored to high net-worth donor subgroups for Room to Read HK
- Conducted analysis on HK's elderly population and travel industry to develop expansion strategies for Eldpathy, a local NGO

TECHNICAL SKILLS

Programming Languages: Python • C++ • Java

Data Science/ ML: Pandas • Matplotlib • Scikit-Learn • Keras • Pytorch

Misc: Android • Spring • ReactJS • NodeJS • MongoDB • Elasticsearch • Arduino