

Hoang Phan

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Experience

Google, *Software Engineering Intern*

May - Aug 2021

- Developed, experimented unsupervised methods to detect similar advertising text and label malpracticed ad text in C++ and SQL with the 0.8 AUC on the validation set
- Utilized ETL technology to speed up data processing and algorithm by 100x

Waterfront International, *Software Engineering Intern*

May - Aug 2020

- Developed data extraction scripts in C++ and utilized bash script to parallelize and improve the speed 10x
- Improve a linear time-series binary classification model by a RNN model that improve accuracy by 10%

Google, *Software Engineering Intern*

Sept - Dec 2019

- Created APIs in C++ and SQL to efficiently handle full text search queries for 10M+ diff reports
- Designed and implemented a garbage collection system cleans up 1M+ expired reports daily

Yahoo! / Verizon Media Group, *Backend Engineering Intern*

Sept - Dec 2018

- Utilized parallelization to reduce the runtime of a video pipeline written in Python using OpenCV by 50%
- Placed 10th on F1-score in a company-wide machine learning competition with a text classification model

Anduin Transactions, *Software Engineering Intern*

May - Sept 2018

- Designed and planned out requirements for e-signatures features using React and Scala
- Designed data schema that works with different law firms and companies

Awards and Honours

Silver medal in *Asia Pacific Informatics Olympiad*

C++

- Placed **2nd** in Vietnam and 35th among 164 students from 30 countries in an algorithmic competition

First place in *Bloomberg Code B*

Python

- Placed **2nd** in Algorithms and **1st** in UI Design in a strategy game algorithm design hosted by Bloomberg

Best Machine Learning App in *Hack the Valley 2018*

Javascript, Python

- Received the best Machine Learning application out of more than 50 teams across North America with a fruit recipe suggestion app

Projects

C-subset Compiler

C++

- Wrote a compiler from C programming language to MIPS Assembly utilizing parse tree and LR1 machine

Scene Seeker

Python, Javascript

- A text scene searching of videos using image to text and utilizing cosine similarity of text embedding

Toxic Comments Detector

Python

- A personal side project experimenting on multiple multi-label text classification models using **keras**

- Placed in the **75% percentile** of a data science competition on **Kaggle** with accuracy more than **80%**

Education

Bachelor of Computer Science *University of Waterloo*

2017 — 2022 (expected)

Minor in Combinatorics & Optimization

Relevant courses: Compilers, Object Oriented Programming, Operating System, Algorithms, Non Linear Optimization, Statistics: Classification

Skills

Languages: C++, SQL, Python, Javascript, Scala, Dart

Technologies: Keras, Tensorflow, Pytorch, Scala.js, Redux, React.js, Node.js, OpenCV, ETL, Flutter, gRPC