

First Last

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Experience

Small, Established Company

City, Province

MACHINE LEARNING INTERN

May 2019 - August 2019

- Spearheaded development of an **Android** application and statistical models to bring parts of the ERP software to mobile
- Increased client efficiency by 35% with savings of over \$10 million by integrating factory KPIs to optimize logistics and metric tracking
- Created electrical and software mechanisms and pipelines for efficient **data gathering, cleansing and visualizations** from factory machinery
- **Improved existing model performance** by 18% through new image-preprocessing techniques from **Tensorflow, OpenCV and scikit-learn**
- Handled medium-large datasets (>100 GB) with **Pandas, and efficient SQL queries**

University Hyperloop Team

City, Province

COMMUNICATIONS SOFTWARE LEAD

April 2019 - Present

- **Leading a team** of software engineers responsible for creating communications software for a Hyperloop pod
- Led efforts to create a finite state machine for communications software on pod
- Spearheading development of high-level architecture of code, with a focus on **modularization, readability and maintainability**
- Developing communications software on **UDP Multicast, LCM and MQTT**

Small Startup

City, Province

DATA SCIENCE INTERN

July 2018 - August 2018

- Developed flexible code for data analysis of various metrics using **Python** by reading live user data to generate statistical results
- Created a library to analyze user action data to predict future actions using a Markov Chain
- Implemented a Monte Carlo simulation for different demographics to compare usage patterns
- Utilized **Tableau** for data visualization and to identify key points of interest, allowing development of critical app features
- Reduced power consumption by 12% by migrating performance heavy tasks to server, aiding in optimization and scalability
- Drove a 14% increase in daily active users by making marketing decisions with key insights from **statistical analyses using scikit-learn**

Projects

predictstart

February 2019 - June 2019

REACT, PYTHON, PANDAS, SCIKIT

- Trained various **data science** models to predict the success of a Kickstarter Project, with an accuracy of 80% and with high precision and recall
- Prevented many avenues of data leaking through focused efforts on data cleaning and feature selection
- Developed Python **web-scraping** techniques to make predictions on new data
- Employed SHAP Values to indicate feature importance and suggest improvements to projects

context

June 2019 - July 2019

ANDROID (KOTLIN, JAVA), PYTHON

- An Android application to allow data/wifi-free internet access to travellers through text-based communication
- Minimized user costs by **optimizing bandwidth usage** through the use of caches and aliases
- Featured OCR data-entry using Google Mobile Vision for translations in different languages
- Produced robust web scraping algorithms to obtain directions, translations, Google search results, and save web pages from results

puddle

August 2019 - Present

PYTHON, FLASK, TENSORFLOW, SQL

- A command-line tool for ML developers to deploy, host and demo their models online with just one command
- Implemented support for **TensorFlow, LGBM and PyTorch** text and image models
- Collaborating with contributors as an **open source** project to add support for more popular ML frameworks and improve efficiency
- Enhanced bandwidth usage to lower Amazon S3 costs by 8% by optimizing **data tunnelling** and using a pass-by-reference structure

faceauth-android

July 2019 - Present

ANDROID (KOTLIN, JAVA), PYTHON, TENSORFLOW

- An Android library to allow developers to integrate facial authentication technology into their applications
- Boosted **user privacy** and security through consultations with members and experts of the Android community
- Resolving issues by implementing wanted features, such as embedding encoding, gesture recognition and blink detection

Education

University of City

City, Province

BASC IN ENGINEERING SCIENCE, MAJOR OF INTEREST: MACHINE INTELLIGENCE

September 2018 - April 2022

Relevant Coursework: Introduction to Programming, Data Structures and Algorithms, Engineering Mathematics and Computation, Digital and Computer Systems, Probability and Statistics