Hooman Ramezani

3A Systems Design Engineering, University of Waterloo

Aspiring machine learning engineer with diverse skillset of deep learning and software development technologies

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SKILLSETS

- Python (4yrs) C++ (4yrs) PyTorch (1yr) OpenCV (1yr)
- Tensorflow, building models w/ customized architectures
- Data Engineering, raw-data manipulation and analysis
- Designing efficient backend for databases and API's

EDUCATION

Systems Design Engineering Relevant Courses

BASc, University of Waterloo Sept 2018 - Apr 2023

• 3.7 / 4.0 GPA

Data Structures & Algorithms

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- Probability and Statistics
- Matrices and Linear Systems

EXPERIENCE

Deep Learning Developer | Applied Brain Research

Tools: Tensorflow, Unreal Engine 4, OpenCV, Python, Keras, PyCharm, Ubuntu, Git

- Developed end-to-end ML pipeline for an embedded image classification model using modern ML stack
- Built Unreal Engine simulation paired with OpenCV masking for data generation, mitigating shortage of real-world data
- Achieved 96% object-detection accuracy using RCNN to process video, incorporating NNI hyperparameter automation, GPU optimization for efficient training, and temporal processing using LSTM

Backend Developer | Baron Biosystems

MAY. 2020 - AUG. 2020

JAN. 2021 - PRESENT

Tools: PHP + Laravel, JavaScript, JSON, MongoDB, MySQL, Jira, Git

- Manipulated large data models developing functionality for a data-driven cycling analytics platform with PHP, MongoDB
- Constructed platform-wide messaging service with 10k MAU, consolidating open-source libraries and APIs
- Built cloud-enabled 'Profiles' feature increasing subscription price by 50%, migrating infrastructure to modern stack

Android Developer | reebee Inc.

SEPT, 2019 - DEC, 2019

Tools: Kotlin, React, Java, ORMLite, Node.js, Firebase, Git

- Responsible for end-to-end deployment of features on reebee's native Android shopping app with over 900k MAU
- Redesigned home page, trusted making integral decisions while incorporating Google Material Design and reebee API
- Decreased memory costs from 50MB to 10MB on average for Recycler View, optimizing with CPU multi-threading

Web Automation Developer | SAP Canada

JAN. 2019 - APRIL. 2019

Utilized Python, AWS, SQL to develop automated regression test-suite for SAP HANA database management system

PROJECTS

Titanic Machine Learning Competition | *Kaggle*

AUG. 2020

- Placed in top 20% of submissions for development of Keras neural network which predicts Titanic passenger survival
- Optimized performance with feature engineering, accurately filling-in, removing, quantizing and normalizing data

Nailed-It | Medical Diagnosis Application

FEB. 2019

- Designed an image detection and classification system using Tensorflow CNN's to perform early-stage diagnosis of oxygen-deprivation illness by recognizing user's nail discolouration
- Awarded 2nd place in UofT HackXplore hackathon for high level of creativity, and intuitive front-end created with React