

YIFEI MA

Final year computing science student at the University of Alberta. Passionate about machine learning and software engineering. Able to adapt to a fast-paced developing team and thrive in a changing environment.

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EDUCATION

BSc Honors, Computing Science

University of Alberta

09/2017 - Present

Dean's Honor Roll

Relevant Courses

- Intelligent Systems. Digital Image Processing. Visual Recognition. Combinatorial Game Theory. Search, Knowledge, Simulation. NLP. Software Engineering. (GPA 3.6 for above courses)

PROJECTS

Background Subtraction for Moving Camera

(09/2020 - Present)

- Currently proposing a new algorithm of background subtraction based on **SIFT feature extraction** and multi-scale **data clustering**.

NOGO AI PLAYER

- A pattern and simulation-based Nogo (A simplified version of Go) AI player that is able to beat advanced Human Players.
- **Monte Carlo Tree Search** was implemented for move searching and evaluation.

Double-Digits Image Classification

- A CNN model implemented with **PyTorch** that able to locate and classify each digit with high accuracy.

MissionD

- An **Android** application that enables user to request for a ride just like Uber.
- Using the **Firebase Firestore** as the main database that enables authorization and data synchronization in realtime, implemented with **Google Map API** to allow users to see the current location of the driver.
- Responsible for the database programming, designed and programmed each module following the principle of **OOP**.

WORK EXPERIENCE

Web Development Intern

Eontronix

06/2019 - 10/2019

Zhengzhou, China

Eontronix is a leading technical service provider to the Chinese auto industry, specializing in the areas of Electrical Vehicles.

Achievements/Tasks

- Assisted in the development of an online education platform, optimized the process of viewing online content according to the overall direction of the development of the website.
- Collected and organized the relevant curriculum resources, translated courses such as Stanford Machine Learning open courseware to the website.
- Coordinated with the companies that developed the website and the service provider that provided the video online viewing, perfected each function of the website.

SOFT SKILLS

Communication

Teamwork

Problem Solving

Flexibility

Self-management

Confidence

TECHNICAL SKILLS

Languages

Python, Java, C/C++, Matlab, SQL

Libraries/Platforms

Numpy, Scikit-learn/Scikit-image, PyTorch, Tensorflow, Spacy

Tools

Git, PyCharm, IntelliJ IDEA, Android Studio, Docker, Lightroom/PS, MS Office

Others

Software Design Pattern, HTML5, SQLite, Latex, Unix

FURTHER EDUCATION

IBM Machine Learning Professional Certificate. (In progress)

Responsive Web Design from freeCodeCamp.org (In progress)

LANGUAGES

Mandarin

Native Proficiency

English

Full Professional Proficiency

INTERESTS

Photography

Basketball

Artificial Intelligence

Travleing

Weiqi/Go (3 Dan Rated)