JIAWEI WANG

Graduate Student seeking internship as **Backend**/**ML** Engineer
jiawei.wang@tufts.edu | (339)-674-8995 | Boston, MA | github.com/Jiawei-Wang | linkedin.com/in/hire-jiawei-wang/

EDUCATION

Tufts University, Greater Boston, MA
- *Master of Science, Computer Science* Expected May 2021
- Courses: Algorithms, Data Science in Python, Software Engineering, Machine Learning, Artificial Intelligence

Anhui Medical University, China
- *Bachelor of Medicine and Surgery, Clinical Medicine* 2011-2016
- Relevant courses: Data Structures, Computer Networks, Operating Systems, Database Systems, C Programming, Discrete Mathematics, Computer Architecture

PROJECTS

DecorRight
- Created this startup project as a participant in the Tufts Entrepreneurship For Computer Scientists program. DecorRight is an online platform for personalized interior design recommendations using **Artificial Intelligence** and **Augmented Reality** to provide users with interactive features.

Smart Student Attendance System
- Designed and built SSAS, an Android application for monitoring and analyzing student attendance information using **XML**, **JavaMail API**, **SQLite Database** and **JUnit** on **IntelliJ**, **Android Studio** and **Navicat**.

Contextual image classification analysis
- Designed and built several different **Machine Learning** models to conduct analysis on images from MNIST database including **Support Vector Machine**, **Logistic Regression with Gaussian RBF kernel**, **Cross-Validation** and more.

NEAT Flappy Bird
- Utilized **Genetic Algorithm** and **NEAT module** to build an AI desktop application allowing AI to train and play the game automatically.

Twitter stream analysis
- Processed, analyzed and categorized incoming Tweets using **Tweepy API** and **Moral Foundations Theory** on **Jupyter Notebook**

Java Calculator
- Utilized **Swing API** to build a calculator application with GUI

EXPERIENCE

Research Student in Bioinformatics, University of Tokyo, Japan 2017-2018
- researched morphological changes in tumor cells using R language and CalMorph, a Java-based software, focusing on pathways of protein metabolism.

Research Student in Biotechnology, Tohoku University, Japan 2016-2017
- Conducted data analysis for fermentation mechanism of *Saccharomyces cerevisiae* with different supplements

Clinical Intern, First Affiliated Hospital of Anhui Medical University, China Dec 2014 - Dec 2015
- Performed surgeries and clinical treatment on different occasions under supervision of senior doctor during this full-time year-long clinical internship
- Carried out medical inspection, treatment and medical record review

Research Intern, Institute of Genetics, Fudan University, China July 2014 - Sept 2014
- Handled research protocol involving human genetics and research into the relevance of flora of oral cavity to *ankylosing spondylitis*

SKILLS & LANGUAGES

Languages and Libraries	Python, Java, C++, HTML/CSS/JavaScript, XML, SQL, Jupyter/Colaboratory, pandas, NumPy, TensorFlow and scikit-learn
Softwares and Platforms	Android Studio, Git/GitHub, LaTeX, Atom, VS Code, Vim, Jira, Unix/Linux
Foreign languages	Japanese Language Proficiency Test (JLPT) N1 certification