



JIawei WANG

Graduate Student in CS seeking **Full-time Position** as **Backend Software Development Engineer**

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EDUCATION

Tufts University, Greater Boston, MA

- *Master of Science, Computer Science*
- Teaching Assistant for COMP-205: Principles of Data Science in Python

Expected Dec 2020
Aug 2020 - Present

Anhui Medical University, China

- *Bachelor of Medicine and Surgery, Clinical Medicine*

2011 - 2016

Relevant courses: Algorithms, Data Structures, Operating Systems, Compilers, Computer Networks, Operating Systems, Database Systems, Discrete Mathematics, Computer Architecture, Data Science in Python, C Programming, Software Engineering, Machine Learning, Artificial Intelligence, Computation Theory, Web Engineering

COMPETENCIES

Programming Python/Django/Pytest/TensorFlow/scikit-learn, Java/Spring/JUnit, JavaScript/Express, HTML5/CSS3, OCaml, C/C++, Shell script, JSON/XML, SQL/PostgreSQL/MongoDB, Jupyter/JupyterHub/Colaboratory

Development AWS/Heroku, Android Studio, Git/GitHub, Unix/Linux, Docker, Anaconda, Redis, Vim, Firebase, AJAX, Apache Tomcat, Apache Maven, Lighthouse, Hadoop, Kubernetes(K8s), LaTeX, Atom/VS Code, Slack, Jira, Distributed Systems, CI/CD pipeline, Agile/Scrum Development, Object-oriented Design(OOD), Object-oriented programming, Functional programming

Language Japanese Language Proficiency Test (JLPT) N1 certification

July 2014

EXPERIENCE

GradGub Inc., *Software Development Intern*

May 2020 - Aug 2020

- Designed and implemented a recommendation system for mentor-mentee matchmaking from the ground up, utilizing **Neural Networks**, **K-Nearest-Neighbors**, and other Machine Learning Algorithms.
- Developed a web application using **Java**, **Maven**, and **Spring**, as an internal search tool to help mentors search and send encrypted emails to other mentors.
- Redesign and improved the database system for mobile application by implementing **NoSQL database**, and building Database Cluster with **Consistent Hash Algorithm** to support large-scale data storage, increased query speed by 30%.

ThyFlow Inc., *Full-stack Development Intern*

Dec 2019 - Feb 2020

- Designed and built Mobile Barber, a web-based application, on both server-side and client-side using **Javascript**, **Express**, **MongoDB**, as part of the ThyFlow App, to provide users with instant messaging and booking services.

The University of Tokyo, *Graduate Research Student Program*

Sep 2017 - Aug 2018

- Optimized CalMorph, a java-based cell morphological analysis software, including but not limited to **algorithm and data structure optimization** and **code refactorization**, improved true positive classification rate on deformed tumor cells by 4%.
- Processed and analyzed morphological data of chemicalized cells using **R language** and **Python**, focusing on pathways of protein metabolism.

PROJECTS

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**, and **Cross-Validation**.

EzRide

- Created a web application that provides local public transportation information based on user's current geographic location using **Google Map API**, **Express** and **PostgreSQL**, and deployed to **Heroku**.

DecorRight

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

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**.