

# Yuhan Xiao

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## EDUCATION **CARNEGIE MELLON UNIVERSITY** Pittsburgh, PA

Expected Graduation: December 2020

Bachelor of Science in Electrical and Computer Engineering

## WORK EXPERIENCE **SALESFORCE.COM, INC.** San Francisco, CA

**Software Engineering Intern** | May 2020 - Aug 2020

- Migrated the backing store of Salesforce's in-house APM from MySQL to the more scalable HBase with Apache Phoenix engine, by using Java to dynamically generate SQL queries, which increases storage capacity and TTL to provide better data access for investigating production issues;
- Wrote scripts to identify top cpu consuming processes and thread groups in order to automatically diagnose high CPU production incidents, reducing time to detect and triage future incidents.

**VIRTUAL TRAFFIC LIGHTS, LLC.** Pittsburgh, PA

**Research Assistant** | Sep 2019 - Dec 2019

- Developed UI for an aircraft monitoring web application using Vue.js and integrated it with backend built on Firebase, MongoDB, Node.js, and Express.js;
- Built a rate limiter for some API endpoints to avoid resource abuse; implemented caching and state management across tabs using Vuex, for fast and consistent user data retrieval.

**SIEMENS AG** Shanghai, China

**Software Engineering Intern** | Jun 2019 - Aug 2019

- Created a Python tool that takes in excel sheets and extracts information into tree-based data structures, for the consumption of further business analytics;
- Trained a Support Vector Machine to recognize excel sheet headers for accurate data extraction using scikit-learn and TF-IDF.

## PROJECTS **ML Model for Pet Advertisement Evaluation** | Team Co-lead | Popular Poster Award

- Built and trained a dense neural network using Pytorch on 15K animal profiles;
- Resolved class imbalance and improved data representation to reach a prediction accuracy of 87%.

**Web Application for Food Ordering** | Team Lead

- Developed a RESTful web application to sell/order food and arrange pickups between students and vendors; built with Django, PostgreSQL, Materialize, and deployed on AWS cloud.

**LANGUAGES** Python, Java, Javascript(JQuery, AJAX), SQL, HTML, CSS.

## LEADERSHIP **Institute of Electrical and Electronics Engineers(IEEE), CMU**

Vice President | Oct 2018 - May 2019

- Organized biweekly social and professional events for the ECE undergraduate community.

- AWARDS**
- Dean's List - Spring 2019, Spring 2020;
  - 2020 CMU ECE Grace Hopper Scholarship;
  - Led teams to win top awards in 2019 IEEE Student Activities Conference, among 20+ schools:
    - 1st place in robotics, 2nd place in hackathon, 3rd place in circuit building.