# Tianqi (Andy) Wu

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## **OBJECTIVE**

MS in Computer Science student seeking software engineering internship for summer 2023.

#### **EDUCATION**

Carnegie Mellon University | Pittsburgh, PA

Major: Master of Science in Computer Science

Relevant Coursework: Computer Systems, Web Application Development, Machine Learning

Washington University in St. Louis | St. Louis, MO

Graduated May 2022

Expected Graduation: Dec 2023

Major: Bachelor of Science in Computer Science

Cumulative GPA: 3.93/4.0 | TBP Member | Productive Scholarship in Engineering | Latin Honor

Relevant Coursework: Software Engineering Workshop, Mobile Application Development,

Database Management Systems, Visual Analytics, Data Visualization, Cloud Computing

#### PROFESSIONAL EXPERIENCE

## Software Engineering Intern, Adalo

Jun 2021 - Aug 2021

- Implemented and improved core features for cross-platform application building software, covering ~25 million monthly active users
- Crafted frontend components with **React**, **React-Native**, and **Redux**
- Cooperated with product design team to navigate technical constraints and possible refinements
- Created testing guidelines and launched testing for new components

## Research Assistant, WashU Visual Data Analysis Group

*Feb* 2021 – *May* 2021

- Designed a visual analysis web application for tracing epidemic spread and identifying methods of transmission on ~ 1 million microblog messages
- Introduced keyword searching and geological filtering with Flask and MySQL
- Refined user interface and data visualization features with React, Bootstrap, D3.js, and Mapbox
- Refactored backend structure and enhanced efficiency by ~40%

## Software Engineering Intern, Enhearten

Aug 2020 - Sep 2020

- Developed a cross-platform microblogging application **from scratch** for doctors to trace and analyze patients' mental health status and react immediately in emergencies
- Initiated core application features with **React Native** and **Firebase**

#### SELECTED PROJECTS

#### SafeMap - ST Hacks Hackathon

Jan 2021

- Led a team of four for a one-shot COVID risk management platform for Toronto population (~3 million) with visualizations of infection rates by community and personalized travelling recommendations
- Won first prize (out of 40 projects) and Wolfram Award
- Crafted visualizations and location search features with Leaflet.js and Google Map APIs

#### Movie Recommendation System with Netflix Data

Dec 2019

- Implemented a cloud-based movie recommendation system with collaborative filtering
- Placed second for final project competition with ~30 groups in terms of accuracy and performance
- Analyzed movie ratings data (~80MB plain text files) using Spark with Jaccard similarity measure
- Deployed program for cloud execution on Amazon EMR, EC2 & S3
- Tuned hyperparameters and optimized code for cloud execution, improving overall efficiency by ~50%

#### Spring4 - Personal Finance App

Dec 2019

- Led a team of four to build an iOS finance app for managing stock and budgets
- Designed data visualization features with Charts
- Launched backend features with Firebase and World Trading Data APIs

## TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C++, MATLAB, HTML, CSS, Swift, SQL, PHP, C, Bash, Ruby Frameworks & Libraries: React, D3.js, Angular, Express, Flask, React-Native, Spark, TensorFlow, Hadoop Tools & Operating Systems: Linux, Git, Docker, Visual Studio Code, XCode, Eclipse