

# Tianqi (Andy) Wu

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## OBJECTIVE

Incoming MS in Computer Science candidate seeking software engineering internship for summer 2022.

## EDUCATION

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

*Expected Graduation: May 2023*

**Major:** BS/MS in Computer Science **Minor:** Electrical Engineering

**Cumulative GPA:** 3.99/4.0 | Dean's List | TBP Member | Productive Scholarship in Engineering

**Relevant Coursework:** Software Engineering Workshop, Mobile Application Development, Data Visualization, Database Management Systems, Artificial Intelligence, Parallel Computing, Cloud Computing with Big Data Applications, Object-oriented Software Development

## PROFESSIONAL EXPERIENCE

Software Engineering Intern, Adalo

*Jun 2021 – Present*

- Implementing and improving core features for the cross-platform application building software, covering **~25 million** monthly active users
- Crafting frontend components with **React**, **React-Native**, and **Redux**
- Cooperated with the product design team to navigate technical constraints and possible improvements
- Designing 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
- Crafted 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 improved 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
- Designed frontend features with **React Native**
- Implemented user registration/authentication and posting system with **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**
- Integrated frontend features with backend recommendation system

Movie Recommendation System with Netflix Data

*Dec 2019*

- Implemented a cloud-based movie recommendation system with collaborative filtering
- **Placed second** for the 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 the 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**
- Implemented 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