Andy Wu

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Education

New York University, New York, New York   **Expected Spring 2026**
Bachelor of Science, Major in Computer Engineering, Minor in Finance
- Cumulative GPA: 3.727

Experience

IT Infrastructure and Automation Intern   **June 2024 - August 2024**
Stagwell Global, New York, New York
- Led a team of 4 interns to **first place** in the 2024 Intern Project Competition amongst **12 teams** by spearheading the development of "**Stagvision**". Utilizing **Scrapy** and **BeautifulSoup** to scrape the judging criteria of advertising competitions and **AiseraGPT's API** to compare them with Stagwell's previous competition wins; generating feedback and the probability of victory for the PR team.
- Achieved a **60% reduction** in processing time and significantly improved data accuracy and scalability by automating Stagwell's subsidiaries' staffing processes with **Powershell** scripts that integrate Okta, UKG, and Maconomy's **API**; totaling ~5000 lines.
- Assisted in cloud migration by modifying and loading local scripts into **Microsoft Azure** and called by **FreshService** workflows, alleviating local server load by **~20%** and allowing automatic update checks to be run every **30 minutes versus an hour**.

Data Engineering Intern   **November 2023 - January 2024**
RadicalX AI, New York, New York
- Designed **ETL processes** that pipelined data from public data into trainable sets for the company's LLMs model by utilizing **SpaCy** for data cleaning to ensure consistency, integrated with **Prodigy** for data parsing, then lastly loaded onto **Amazon S3.**
- Optimized distributed processing workflows with a team of interns by utilizing **Apache Spark** to increase parallel processing with additional nodes; reducing job runtime from **4 hours to 2.5 hours** and lowering compute costs by around **15%.**
- Gained experience with the **Scrum** collaboration framework by participating in daily stand-ups and sprint planning.

Information Technology Specialist   **October 2022 - June 2023**
Pasadena City College, Pasadena, California
- Developed **Powershell Scripts** to streamline a process for the deployment of a new software across **over 900** campus-owned machines. The scripts are implemented onto the machines with the **Windows SCCM and CMD** of the local machines.
- Provided proficient and comprehensive technical support by closing **176 tickets**, including repairing and installing various technologies' hardware and software, such as computers, consoles, phones, printers, televisions, and docking stations.

Full Stack Software Engineering Intern   **December 2021 - February 2022**
Borei Pharmaceuticals, Changsha, Hunan, China
- Pipelined changes in warehouse inventory and transactional databases by connecting **Debezium**'s PostgreSQL connector to a **PostgreSQL** instance, pushing changes in the source data to **Apache Kafka** topics to be listened to by **SpaCy** for analytics.
- Collaborated with the Design department to develop a new interactive website with **HTML**, **CSS**, and **JavaScript;** using the frameworks **ReactJS** and **React Native**. Successfully integrated **public APIs** to enhance user experiences and functionality.

Projects

Message Assistant - *TypeScript, JavaScript*
- Developed a mobile application that employs ChatGPT using **OpenAI's API** to automatically write messages to selected friends and family on their birthdays and other holidays. Messages can be personalized for each individual recipient according to the user.
- Ensured a seamless user experience by developing with **React Native** and **Firebase** to leverage their cross-platform capability and API friendliness to allow real-time communication between the front end and ChatGPT on **10+ iOS and 100+ AndroidOS Versions**.

NYU Albert Course Availability Updater - *Python, HTML, CSS*
- Developed a program that allows students to watchlist courses on NYU Albert and either automatically register the user if the watchlisted courses reopen, they have reached the end of the waitlist, or notify the user if another section becomes available.
- Implemented an automatic and effortless user experience by using a custom **Django** server that periodically runs the program. Utilizing **Selenium** and **Scrapy** to log into and scrape Albert to collect real-time updates. **BeautifulSoup** then allows the program to find the course status amongst the HTML data and register the user; and/or email the user updates using the **smtlib** package.

Technical Skills

- **Programming Languages:** Python, SQL, C++, C#, Java, JavaScript, HTML, CSS, Powershell, BASH, Verilog
- **Frameworks / Libraries:** ReactJS, NodeJS, Django, SpaCy, Prodigy, bs4, Selenium
- **Platforms / Tools:** Git, Github, Microsoft Azure, A.W.S., Vivado, Google Cloud, PostgreSQL, Apache Kafka, Apache Spark
- Native Fluency in Mandarin, Cantonese, and English