

Andy Wang

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EDUCATION

Columbia University

BA in Computer Science and Anthropology — GPA: 3.7/4.0

New York, NY

Class of 2024

Relevant Coursework: Analysis of Algorithms, Data Structures, Adv. Programming, Computer Systems, Computer Science Theory, User Interface Design, Modern Algebra, Computational Linear Algebra, Multivariable Calculus.

WORK EXPERIENCE

The Vendry

Software Intern

Brooklyn, NY

June, 2022 — Current

- Built a system to create, assign, and search by Accolades, improving customer experience.
- Added an admin system to update databases with Accolade data for over 30,000 venues.
- Implemented a frontend search UI encountered by all users.
- Created an end-to-end Full-Stack solution: stored data in several MySQL tables, retrieved data with Knex JS, and interfaced with the user through Typescript, React JS Framework, and HTML/CSS.
- Fixed ~50 bugs, gaining experience with various technologies including NPM, AWS, Postman deploy, and Express JS while working in an agile environment.
- Implemented UX/UI designs and tech/product specs into code following best practices and company code standards.

IBM Red Hat Software

Software Intern

Raleigh, NC

May, 2021 — August, 2021

- Developed an end-to-end customer data analysis dashboard, involving a SQL cache that would regularly send data requests, a CICD pipeline using Travis CI and Quay.io, an analysis engine to convert data into concise graphs, and a REST API that connected to a Streamlit frontend website.
- Hosted the dashboard in the RedHat Cloud using Kubernetes.
- Improved speed of data retrieval by over 500% from the previous solution, and automated the data analysis process.
- Saved 5 hours of weekly work for Vice Presidents and Distinguished Engineers by providing data-driven guidance for decisions affecting over a thousand corporate customers.

Duke Humans and Autonomy Lab

Software Development Research Intern

Durham, NC

May, 2017 — February, 2020

- Developed a Java cyberattack-detection drone piloting simulation and was acknowledged on two papers.
- Programmed and designed a front-end Python graphical interface for the Federal Department of Transportation.
- Implemented a Hierarchical Temporal Memory machine learning model for use in robotic vision.

AWARDS AND PROJECTS

National Coding Competition

Technology Student Association

- Achieved a 3rd place finish across 250,000 national members.
- Finish programming challenges showing mastery in Object Oriented Programming, graph traversals, data structure manipulation, and algorithm design.

Note Scanning Web-app

- Used a Machine Learning API to scan hand-written notes into machine-readable text.
- Created the web app using HTML, CSS, PHP, and Javascript, and hosted it with Heroku.

Webserver

- Built a Webserver in C using the sockets library.
- Served dynamic content through searching and retrieving elements from a database.

SKILLS/EXTRACURRICULARS

Programming: Python, Java, C++, Docker/Kubernetes, Typescript, HTML/CSS/Javascript, SQL, HTTP

Other Skills: Scrum/Agile, Git/Github, REST API, LaTeX, MySQL Workbench, Adobe Suite, Video Editing

Extracurriculars: Club Volleyball, Columbia Bartending Agency, WKCR FM Radio, Architecture and Design