

# Andy Wang

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## EDUCATION

### **Columbia University**

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

*Relevant Coursework:* Analysis of Algorithms, Databases (MongoDB), Data Structures (Java), Adv. Programming (C), Computer Science Theory, User Interface Design, Modern Algebra, Computational Linear Algebra, Multivariable Calculus.

New York, NY

Expected 2024

## WORK EXPERIENCE

### **The Vendry**

*Software Intern*

Brooklyn, NY

June 2022 – Current

- 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.
- Built a system to create, assign, and search venues by awards they have won, improving customer assessment and experience.
- Added an admin system to update databases with awards for over 30,000 venues.
- Implemented a frontend search UI encountered by all users.
- 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**

*Full Stack 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, a Python analysis engine to convert data into concise graphs, and a REST API that connected to a Streamlit frontend website.
- Deployed in the RedHat Cloud using Kubernetes Clusters, and maintained the health using Grafana Dashboard.
- 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.

## PROJECTS AND AWARDS

### **Personal Website**

- Designed, built, and deployed a dynamic multi-page website using React, Typescript, Tailwind, and React Router.
- Created a backend with several REST API routes using NodeJS and ExpressJS, and hosted it on AWS EC2.
- Connected the services using a secure HTTPS connection, and became familiar with tools like Postman and NPM.

### **HotSpot**

- Built an iOS and Android app while learning React Native, Typescript, MapView Library, and Expo SDK, that collects recommendations from friends, sorts them according to relevance, and displays them for users.
- Conducted user interviews and created several design iterations on Figma to find an optimal solution and frontend layout.

### **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.

## 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, FM Radio Hosting, Graphic Design, Cooking