

# 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 (SQL), Data Structures (Java), Adv. Programming (C), Computer Science Theory, User Interface Design (React), 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**

*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

### **HotSpot**

- Built an iOS and Android app using 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.

### **Personal Website**

- Designed, built, and deployed a full-stack multi-page React website from scratch.
- Created a system to pull data from backend JSON files and dynamically display them.
- Implemented technologies including Typescript, Tailwind CSS, and React Router, and deployed onto Github Pages.

### **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, Architecture and Design