

Andy Wang

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https://andyjwang19.github.io/PersonalSite

EDUCATION

Columbia University

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

New York, NY

Expected May 2024

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

WORK EXPERIENCE

Shade

Ann Arbor, MI

Software Intern

July 2023 — Sept. 2023

- Developed full-stack features that affected 100% of new users, increased processing speed by 23%, and drove conversion to paying customers.
- Created a unit test automation framework for API routes and models to ensure correct functionality for each deployment.
- Built highly scalable and stable features that can be extended by future developers.

The Vendry

Brooklyn, NY

Software Intern

June 2022 — Jan. 2023

- Built an object-oriented system to create, assign, and search venues by awards they have won, and wrote functional tests.
- Managed and developed this full-stack feature, that stored data in seven SQL tables, wrote KnexJS requests to a REST API backend, and interfaced with the user through Typescript, React JS, and HTML/CSS.
- Added to 30% of the data entries, improved the experience of 80% of users, and increased user retention by 10%.
- Fixed over 50 bugs, using NPM, AWS, Postman deploy, and Express JS while working in an agile environment.

IBM Red Hat Cloud Computing Software

Raleigh, NC

Full Stack Data Analyst Intern

May 2021 — August 2021

- Automated the telemetry and metrics for the Redhat ACM product by connecting the data emissions with our Python backend, and presenting the graphs on a Streamlit website.
- Provided data-driven guidance for decisions affecting 1k+ corporate customers, saving 5 hours of weekly work for Vice Presidents and Distinguished Engineers.
- Stored the data using a SQL cache, speeding up data retrieval by over 500%.
- Deployed in the Cloud using a Kubernetes Cluster, and maintained the health of the service using Grafana Dashboard.

PROJECTS

Freelance Website Designer and Developer for Artists

- Increased engagement with artists' Instagram pages by 40%, growing sales and readership.
- Conducted interviews with clients to discover pain points and needs, discussed designs that would capture their personality and work, and created visually-appealing interfaces to solidify their online presence, capturing traffic from search engines.

Personal Website

- Implemented several AWS cloud services, including EC2 for the backend, VPC for security, RDS for the database, DNS Route 53 for routing, and Amplify to host the frontend.
- Built and deployed a dynamic multi-page website using React, Typescript, Tailwind, and React Router.
- Connected a backend with several API routes built with NodeJS, ExpressJS, and PostgreSQL, using HTTPS.

HotSpot

- Built an iOS/Android app that collects restaurant/venue recommendations from friends and displays them in map, sorted based on the user's history of liking each friends' recommendations.
- Conducted user interviews and iterated through several designs on Figma to find an optimal solution and frontend layout.

SKILLS AND LEADERSHIP

Programming: Typescript, React JS, Python, Java, C++, Tailwind, MySQL, PostgreSQL, Docker/Kubernetes, AWS Amplify, EC2, RDS, DNS Route 53, Git/Github, Axios, CICD, Travis CI, Quay.io, Electron, NodeJS, ExpressJS, React Native, MapView, Expo SDK, Javascript, npm, react-router-dom, REST API, Postman, HTTP/HTTPS, HTML/CSS

Other Skills: Scrum/Agile, LaTeX, Adobe Illustrator/Photoshop/InDesign, Video Editing, Music Production

Leadership: Co-Captain of Men's Club Volleyball, Recruiting Director at WKCR FM Radio, Distinguished Bartender at the Columbia Bartending Agency, Graphic Design for RATROCK magazine, Sous Chef at Baci Supper Club