

# Michael Huang

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## EDUCATION

**University of Illinois Urbana Champaign** – Bachelor of Science, Statistics

Aug 2020 – May 2024

## EXPERIENCE

### Blue Modern Advisory

Jun 2023 – Aug 2023

*Software Engineer Intern*

*Remote*

- Developed web scrapers using Python, BeautifulSoup, and Selenium to collect job postings in conjunction with the ETL process
- Implemented a recommendation service using LLMs with LangChain, created components in React to accept user uploads
- Developed automated unit tests with pytest and GitHub actions and implemented CI/CD pipelines

### Favors

Jun 2022 – Aug 2022

*Software Engineer Intern*

*Remote*

- Developed and implemented React Native components for the Favors android app, actively changeing based on user feedback
- Collaborated in an Agile development team to build RESTful API endpoints using Node.js and Express, handling user matching
- Integrated Google Maps API for location services, allowing users to easily set and view favor locations within a specified radius

### Advanced Computer and Communication Tech

Jun 2021 – Aug 2021

*Software Engineer Intern*

*Remote*

- Collaborated with engineers to design and implement a dashboard for visualizing network signal traffic, exposure to TCP/UDP
- Utilized React, Tailwind CSS, and Node.js to build interactive dashboard components with responsive design principles
- Used RESTful APIs to integrate the dashboard with existing monitoring systems, gained experience with git and Docker for CI/CD

## PROJECTS

### Mobile App Social Media

- Currently building an original mobile app with the goal of encouraging casual conversation with strangers in public spaces
- Architected and implemented a React Native based MVP mobile android application leveraging geolocation services to connect nearby users for spontaneous conversations

### Fullstack Video Web Application

- Created a website that lets users upload and watch videos, comment, like, displays thumbnails, tracks view counts, and search
- Developed using Docker, React, Next.js, Google Cloud, and deployed using Firebase and Firestore

### Multi-Layer Network Simulator

- Developed web-based OSI model simulator using React that visualizes data encapsulation/decapsulation across all network layers
- Implemented real-time protocol header generation and visualization for multiple networking protocols (HTTP, TCP/IP, Ethernet)
- Utilized modern front-end technologies including React hooks, CSS transitions, and SVG graphics to build a performant web app

## LEADERSHIP

### Basketball Coach

Jan 2025 - Present

*Tutor*

*Naperville, IL*

- Fostered a collaborative environment for young children to practice team work, fundamentals, conflict resolution, and participation
- Engaged with players one on one for detailed training and support sessions to improve basketball dribbling, shooting, and techniques
- Organized pickup games with a variety of ages to create an environment for students to practice learned skills in game-like situations

### DuPage County, Election Divison

Oct 2024 - Apr 2025

*Warehouse Laborer*

*Aurora, IL*

- Performed testing and maintence on 600+ Verity HART election machines and assembled critical supplies to over 250+ polling sites
- Acted as an on-call technical election judge to support other judges during the 2024 and 2025 elections with IT expertise
- Played a critical role in the ballot collection process; performed various duties related to elections administration

### IT@UIUC

Sep 2022 - May 2024

*Technical Member*

*Champaign, IL*

- Worked closely in teams to build, test, troubleshoot desktop computers, laptops, operating systems, internet browsers, and software
- Highlighted the importance of computer security through internet habits and recognizing social engineering and legitimacy
- Help setup online accounts and practices for local residents and students, gave a platform to share thoughts and tutorials

## SKILLS

**Languages:** C++, Python, Java, HTML/CSS, Typescript

**Technologies:** React, React Native, Node.js, Express, MongoDB, AWS, GitHub, Tailwind CSS, Selenium, Beautiful Soup, CI/CD, RESTful APIs, git

**Interests:** Basketball, Running, Mathematics, Philosophy, History, Geography, Anthropology, Consumer Electronics