Benjamin Zhang

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Education

Hunter College, City University of New York (CUNY) — Manhattan, NY
Bachelor of Arts in Computer Science — Expected December 2024

- **Relevant Coursework:**
  Discrete Structures, Data Structures and Algorithms, Python and C++ Programming, Web Development, MIPS architecture and assembly language, Linear Algebra, Applied Statistics, SQL Programming, VR Development, Computer Vision

Skills

Programming Languages: C++, Python, C, HTML, CSS, Javascript, SQL, Kotlin
Technologies: Git/Github, MongoDB, S3, PostgreSQL, Firebase, React, Android Studio, OpenAI, Next.js
Spoken Languages: Chinese (only conversational)

Relevant Experience

Movement Vault — Remote
Backend Developer Intern — September 2024 - Present

- Developed functional pages for an upcoming android app using **Kotlin**
- Collaborating with a team of interns to optimize performance across multiple app pages

CUNY Tech Prep — New York, NY
Fellow, Software Development/Data Science — June 2023 - June 2024

- Selected for a competitive web development fellowship with students from 11 CUNY senior colleges, where Fellows create technical projects using tools such as **React**, **Node + Express**, and **PostgreSQL**.
- Participated in weekly courses and learn industry best practices for design, implementation, and deployment, such as **MVC**, version control with **Git/GitHub**, agile & Scrum with **Trello** and **Slack**, test-driven development, and **CI/CD**

Projects

Cheetcode (https://www.cheetcode.dev)

- Designed an AI-powered, beginner-friendly technical interview preparation platform in a team of 4 using **Next.js** and **OpenAI**.
- Developed coding challenges and practice problems stored in **MongoDB** to help users enhance their data structures and algorithms skills.
- Contributed to both frontend and backend development, focusing on building a responsive user interface with **Material-UI** and ensuring a seamless user experience.

CUNY Sphere (https://github.com/hhkbhamza/CTP-CUNYSphere)

- Designed a website in a team of 3 that offers streamlined access to other academic resources for CUNY students majoring in Computer Science or Computer Engineering using **React JS**
- Implemented **AWS S3** to store the document after the user uploads their resume
- Implemented **Firebase** to allow users to chat live with their peers
- Implemented user authentication using **Passport.js,** and **bcrypt.js** for password hashing, and is stored in **PostgreSQL**

Why So Cold? (https://github.com/ZhangBenjamin/Why_so_Cold-2024)

- Designed a working realtime smile detector in a team of 3 using **Python** and **OpenCV**
- Implemented OpenCV's **Haar's Cascade Classifier algorithm** to accurately detect smiles from a webcam input
- Implemented a working countdown timer using **Python's time module** to trigger a photo capture upon smile detection

Certifications

Codepath Course Alumni — September 2024 - November 2024