

Eric Chen

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EDUCATION

Binghamton University | Thomas J. Watson College of Engineering and Applied Science

Bachelor of Science in Computer Science

Expected May 2025

TECHNICAL SKILLS

Languages: JavaScript, Java, C++, C, Python, x86-Assembly

Additional: HTML, CSS, Bootstrap, Amazon Web Services, React.js, Node.js, TailwindCSS

Software: Autodesk Inventor, Multisim, Visual Studio Code, Repl.it, X2Go, Linux, Eclipse, Jupyter Notebook, Android Studio

Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Object-Oriented Programming, Architecture from a Programmer's Perspective, Advanced Computer Architecture, Number Systems

PROFESSIONAL EXPERIENCE

Mission Cloud Services, Cloud Engineering Intern | Los Angeles, California

July 2023 - August 2023

- Conducted specialized testing on AWS IAM and EC2, fixing regulation faults in password and security measures for clients under 24/7 security protection plan
- Moderated customer support tickets in the security department, performing essential SOC2 compliance audit check to detect leaks, reducing overall errors by 33%
- Managed control of a dedicated team project in Amazon S3 through approval of changes in AWS financial, data and server functions, improving the contribution rate by 20%

Family Literacy of Georgia, Web Development Intern | Morrow, Georgia

March 2021 - June 2021

- Led the remodification of existing website with UX design framework through design thinking, structural organization, and color choices, leading to an organized outline of final product
- Redesigned home page in HTML, CSS and JavaScript to include over 10 award winning photos from literacy events, leading to a 30% increase awareness of success of little libraries in impoverished communities
- Deployed finalized website on public IDE, achieving an approval rate of 95% for website framework changes

America On Tech, Web Development Intern | New York, New York

February 2020 - June 2020

- Crafted a structural space journey website inspired by SpaceX with HTML, CSS and Bootstrap
- Applied UX/UI frameworks within home page, enhancing the immersive nature of the space mission experience
- Implemented design thinking towards foundational webframe for an e-commerce website by enhancing functionality and navigation, winning third place in final case competition

PROJECT EXPERIENCE

Resonance Project

August 2023 - Present

- Optimize JavaScript and React.js to create an interactive playlist recommendation based on user's choice of genre
- Engineer a song finder that utilizes Spotify API to generate a playlist based on chosen timestamps, offering a selection of new songs with similar rhythms

Extended Floating Point Project

February 2023 - April 2023

- Formulated a method handling bit manipulation in C, converting a double precision floating point to a float value given length of total and exponent bit, enhancing bit performance in computer architecture
- Integrated test cases within C to evaluate performance, assessing scenarios such as overflow, underflow and rebiasing errors

Restaurant Project

November 2022 - December 2022

- Directed a group in inventing an effective restaurant model, leveraging factors such as customers' hunger level, cuisine type, friend recommendations and priority organization to develop the most time-optimal algorithm,
- Orchestrated a max heap in C++ to organize the restaurant's priority based on hunger level while filtering customers through percolation, allowing for 25% higher customer satisfaction

LEADERSHIP EXPERIENCE

Student Leadership | Brooklyn, New York

February 2020 - June 2020

- Conceptualized mask grading system for annual Masquerade Contest in a class of 1500+ students, gaining approval on creative design for target theme, cultural value, vibrance and audience vote