

Bowen Cheng

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EDUCATION

Northwestern University

Evanston, IL

Bachelor of Science in Computer Science; GPA: 3.97

June 2026

Coursework: Functional Programming, C/C++ Programming, Discrete Math, System Programming, Data Structure and Algorithms, Databases, Scalable Software Architectures, Networks, Honors Probability and Stochastic Processes

EXPERIENCE

GHY Impact Capital Intern

July 2024 - Present

- Analyzed datasets in Jupyter Notebook using Pandas, NumPy, Matplotlib to drive innovative solutions for affordable real estate
- Engineered frontend components with React and Typescript

Fulton Music Society Intern

June 2024 - August 2024

- Awarded Northwestern SIGP+ grant for this internship, award given to 25 students annually to fund an unpaid internship experience
- Facilitated check-in process of 20+ students, communicated expectations, answered students questions
- Served as the lead web designer, created wireframes and prototypes, communicated with clients, refined content strategy for effective communication

PROJECTS

SmartBrain Project | May 2024

- Developed a full-stack web application featuring facial recognition, utilizing React, Node.js, and PostgreSQL
- Integrated a machine learning API for facial recognition, learned Git for version control, and used Postman for backend development

Open Street Map Processing | Dec. 2023

- Developed a navigation application leveraging Open-Source Maps (OSM) to provide data regarding closest bus stops and real-time bus arrival predictions
- Used TinyXML and C++ to parse OSM data, integrated Chicago Transit Authority's online API to dynamically fetch bus arrival predictions

nuPython | Nov. 2023

- Created a Python-like language parser using C
- Implemented core features of nuPython in C, including creation of execution environment to handle basic computation tasks and print statements
- Gained experience in GTest methodologies

ACTIVITIES

Violinist with Fulton in Residence

2021 - 2023

- Developed strong interpersonal skills, live performance ability, flexibility, and professionalism
- Soloed in Oaxaca, Mexico; Ho Chi Minh City, Vietnam with Imagine Philharmonic Orchestra; Honolulu, Hawaii with University of Hawai'i Orchestra

Competitive Math

2018 - 2023

- Sharpened problem-solving skills and developed perseverance to work through challenging problems
- Awards: AIME Qualifier; 1st individually in ICTM; 1st place McCarthy-Murzyn award from City of Chicago Math League; Semifinalist for Modeling the Future Challenge

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Racket, SQL, Linux

Frameworks: React, Node.js

Developer Tools: Git, VS Code, Sublime Text

Libraries: Pandas, NumPy, Matplotlib