

Benjamin Zhao

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EDUCATION

Carleton College

Sep 2021 - June 2025

GPA: 3.8

Bachelor of Arts: Computer Science, Mathematics Minor, Concentration in Finance

Relevant Coursework: Data Structures, Advanced Software Development, Computer Systems, Discrete Math, Calc III, Lin Algebra

Activities: Varsity Football, Club Rugby (**Forwards Captain & Treasurer**), Venture Capital Carleton (**VP**), Athlete Investment Club

TECHNICAL SKILLS

Programming Languages: Python, Java, C, HTML, R, CSS, Javascript, Swift, SQL, Asm, Docker, AWS Lambda, Scheme

Skills: Software Development, Hibernate, Pandas, Website management, Consulting, Data Analytics, Portfolio Asset Management

PROJECTS

High Blood Pressure Predictor | *Full Stack Website*

Winter 2023

- Created an end-to-end web application with **Python's** Flask framework to assess an individual's high blood pressure risk based on demographic data
- Seamlessly integrated **UI** with a robust backend system leveraging **SQL** to efficiently retrieve data from a local database.

Ben-zhao.com | *Personal Portfolio Website*

Dec 2022

- Coded a personal portfolio website, utilizing **CSS** and **JS** in combination with **HTML** and **PHP** for database access

Cahai.org | *Website Development: Personal Project* | Fairfield, CT

Jun 2021 - June 2022

- Utilized **HTML** and **UI/UX** to manage and update website for local nonprofit organization as part of a team
- Drove over 200% increase efficiency for organizing events, selling tickets, and managing members

PROFESSIONAL EXPERIENCE

Oracle (OCI) | *Software Engineer Intern* | Austin, TX

May - Aug 2023

- Developed an end-to-end automated system to detect PSU faults in OCI Pulse and initiate downstream triage and live repair
- Enhanced one of OCI's first live repair services by streamlining PSU fault maintenance requests using **Java API** frameworks
- Worked across cross-functional agile teams to ensure smooth code migration process to non-terminating repair services

Carleton College | Northfield, MN

Computer Science Course Staff and Lab Assistant

Sept 2022 – June 2023

- Led in helping enhance understanding of fundamental theories of computer science of over 50 students weekly
- Delivered debugging feedback and grades to between 30-60 students for 1-3 weekly programming projects

Athletic Administrative Assistant

Sep 2021 - Present

- Created **Python algorithm**, increasing efficiency by over 1000%, to migrate tracking of varsity rosters, letters, and awards from paper archive records to electronic management system
- Drove data-led initiatives to improve the acceleration in the management of concession stands across all athletic events by 200%.

Frontage Laboratories, Inc | *Data Analyst Intern* | Exton, PA

Dec 2021 - Jan 2022 | June - Aug 2022

- Spearheaded development of **Python algorithm** by leveraging **pandas** and **numpy** to automate inventory tracking, increasing efficiency by over 100%, for over 300 biological instrument inventories and distribution
- Managed orders totaling over \$100,000 in biological supplies and lab materials to deliver supplies to over 25 clinical studies

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Piper Sandler | *Career Exploration Program Participant* | Houston, TX

Feb 2023

- Network with PS professionals in IB, corporate finance, equity research, and fixed income to prepare for 2024 analyst interview

American Society for Biochemistry and Molecular Biology (ASBMB) | *Research Presenter* | [Research Publication](#)

April 2021

- Abstract Published in FASEB Journal: May 2021 and poster presenter at 2021 Experimental Biology conference
- Computational biology research modeling the integrin adhesion code using bipartite graph models in **R** for simple cell type prediction and modeling the entire adhesome to help develop adhesome based medicine.

CERTIFICATIONS & AWARDS

Oracle Cloud Infrastructure 2023 Certified Foundations Associate, NCR Scholastic All-American, MIAC, Academic All-Conference, William E Newing Memorial Scholarship Recipient