

# Benjamin Zhao

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## EDUCATION

**Carleton College** GPA: 3.7 Sep 2021 - June 2025

**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**), BUBBL'R Ambassador

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, HTML, R, CSS, JS, TS, Swift, SQL, Asm, Scheme, MongoDB, MQL

**Skills:** Docker, DevOps, Version Control(Git), UI/UX, JIRA, Consulting, Data Analytics, Portfolio Asset Management

## PROJECTS

**Scheme Interpreter** | *Personal Project* Dec 2023

- Engineered a comprehensive **Scheme** interpreter written in **C** with all major features including primitives and continuations

**Wordle Clone** | *Full Stack Application* Nov 2023

- Led the **Dockerized** deployment of a full-stack Wordle clone, optimizing scalability and ensuring a portable deployment process
- Implemented **MongoDB** for user data, **Flask** for server hosting, and **HTML, CSS, and JavaScript** for a seamless **UX**

**High Blood Pressure Predictor** | *Full Stack Website* Jan 2023

- Developed a predictive web application with **Flask** framework to assess an individual's high blood pressure risk based on demographic data integrating **UI** with a robust backend system leveraging **SQL** to efficiently retrieve data from a local database

**Ben-zhao.com** | *Personal Portfolio Website* Dec 2022

- Designed a personal portfolio website with **HTML, CSS, JS, and PHP** to showcase projects and increase professional visibility

## PROFESSIONAL EXPERIENCE

### Oracle (OCI)

*Software Engineer Intern Oracle Object Storage* | Seattle, WA June - Aug 2024

- Developed a pipeline to capture per-tenant replication and copy service metrics, enhancing network traffic analysis and client discussion transparency
- Pioneered implementation of over 50 MQL metrics to pinpoint causes of operational issues for service performance optimization

*Software Engineer Intern Oracle Compute* | Austin, TX May - Aug 2023

- Developed fully automated system for PSU fault detection in OCI Pulse to initiate downstream triage and live repair
- Optimized one of OCI's first live repair services by streamlining PSU fault maintenance requests using **Java** API frameworks
- Collaborated with cross-functional teams to ensure continuous service delivery during code migration to non-terminating repair

**Carleton College** | Northfield, MN

*Computer Science Course Staff and Lab Assistant* Sept 2022 – Present

- Mentored over 50 students weekly, boosting their proficiency in core computer science principles
- Provided critical debugging insights and feedback to over 60 students on 1-3 programming projects per week

*Athletic Administrative Assistant*

Sep 2021 - Present

- Developed **Python** algorithm, increasing data management efficiency by 1000%, in migration from paper to digital records

**Frontage Laboratories, Inc** | *Data Analyst Intern* | Exton, PA Dec 2021 - Jan 2022 | June - Aug 2022

- Spearheaded automation of inventory tracking using **Python, Pandas, and Numpy**, doubling efficiency for 300+ instruments
- Managed logistics for over \$100,000 in biological instruments and supplies, ensuring timely delivery for 25+ clinical studies

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

**American Society for Biochemistry and Molecular Biology (ASBMB)** | *Research Presenter* | [Research Publication](#) April 2021

- Computational biology research modeling the integrin adhesion code using bipartite graph models in **R** for simple cell type prediction and published in May 2021 edition of FASEB Journal

## CERTIFICATIONS & AWARDS

Oracle Cloud Infrastructure 2023 Certified Foundations Associate, 2023 CSC Academic All-District, 2022 NCR Scholastic All-American, 2023 and 2022 MIAC Academic All-Conference, William E Newing Memorial Scholarship Recipient