

David Schaeffer

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dschaeffer.com | linkedin.com/in/d-schaeffer | github.com/david-schaeffer

TECHNICAL SKILLS

Languages: TypeScript | Java | Python | SQL | JavaScript | HTML | CSS | Swift | Racket
Tools: Git | React | Flask | Visual Studio Code | IntelliJ | DataGrip | Google Cloud Platform

WORK EXPERIENCE

Northeastern University | Teaching Assistant for Database Design | Boston, MA September 2023 – Present

- Mentor 10+ students concurrently in 7+ office hours each week on topics in relational databases, SQL, data modeling, and database manipulation with Python.
- Assist professor by grading assignments, answering questions in online class forum with 160+ students.
- Ensure collaborative, productive classroom by communicating with TAs and professor through weekly meetings.

Wood Mackenzie | Full Stack Software Engineering Co-op | Boston, MA January 2024 – June 2024

- Collaborated with senior engineers to develop modular functional programming system, aiding transition to OData protocol across 5+ teams.
- Augmented internal tool using TypeScript and React to enable multi-commodity dataset creation, enabling new functionality across 3+ products.
- Pioneered cross-functional team to facilitate integration with internal React component library, streamlining communication and increasing UI development efficiency across multiple teams.
- Reviewed 3+ pull requests each week, gaining insights from diverse problem-solving approaches and enhancing team code quality by offering targeted feedback.
- Leveraged Agile and Scrum methodologies to iteratively and continuously develop products in two-week sprints, improving team communication and maximizing customer value.

Arbor Biotechnologies | Lab Automation Co-op + Compute Intern | Cambridge, MA January 2023 – August 2023

- Consulted with team leads and scientists to support company-wide integration of Benchling LIMS to centralize sample management, improve data traceability, and accelerate automated processes.
- Built 5+ internal web apps using Flask and Python—integrated with Benchling and various lab instruments—to automate several steps in next-generation sequencing pipeline, saving 5+ hours per week of manual work.
- Developed SQL queries to create internal dashboards analyzing inventory stored in Benchling, streamlining sample management and reducing inventory redundancies by 57%.
- Originated web app utilizing Flask, Python, and Benchling API to support data flow and analysis for an in-house DNA cloning process, reducing turnaround time by 93%.

PERSONAL & ACADEMIC PROJECTS

Personal Website Designed, built, and deployed personal website using Gatsby, React, and Netlify. Website contains personal information, projects, and experience. Summer 2022
dschaeffer.com | github.com/david-schaeffer/my-site

The Sum of Us Designed and coded digital blog/exposition of *The Sum of Us* by Heather McGhee. Created from scratch with HTML, CSS, and JavaScript. May 2021
thesumofus.dschaeffer.com | github.com/david-schaeffer/thesumofus

EDUCATION

Northeastern University | Boston, MA August 2021 – Present

Khoury College of Computer Sciences May 2025

Candidate for a Bachelor of Science in Computer Science and Behavioral Neuroscience

Honors: GPA: 3.88/4.00 | Honors College | Dean's List

Relevant courses: Fundamentals of Software Engineering | Artificial Intelligence
Object-Oriented Design | Algorithms and Data | Database Design