

Zachary Jacobs

zejacobs@gmail.com | 774-633-1174 | [linkedin.com/in/zejacobs](https://www.linkedin.com/in/zejacobs) | github.com/zejacobs

EDUCATION

Northeastern University – Boston Campus, Boston, MA

Jan 2022 – May 2024

MS in Computer Science, GPA: 4.0 / 4.0

Relevant Coursework: Algorithms, Data Structures, Object-Oriented Design, Software Engineering, Data Management, Discrete Structures, Computer Networking, Mobile Application Development, Web Development

University of Connecticut, Storrs, CT

Aug 2013 – May 2017

BS in Molecular and Cell Biology, Statistics Minor, GPA: 3.62 / 4.0 Cum Laude

Relevant Coursework: Statistical Computing

TECHNICAL KNOWLEDGE

Languages: Python, Java, C/C++, JavaScript/TypeScript, HTML/CSS, DLang, R

Tools & Frameworks: Git, Android, React.js, Node.js, Express.js, Bootstrap, SDL, BeautifulSoup

Databases: MySQL, MongoDB, Firebase

PROJECTS

HuckSpot – Disc Golf Social Network

Mar 2024 – May 2024

Northeastern University – JavaScript/TypeScript, HTML/CSS, React.js, Node.js, Express.js, MongoDB

- Developed a full-stack social network single page application with a React.js front end and Express.js back end.
- Utilized MongoDB to store server data and implemented a RESTful API to pass data to client upon request.
- Stored user profile and activity data in server database and integrated a 3rd party Disc Golf API to retrieve and present users with current and relative Disc Golf product and event data.

Out and About – A social planner application for Android

Oct 2023 – Dec 2023

Northeastern University - Java, Android, Firebase

- Lead a project team to build an Android application that provides users with dining, entertainment, and nightlife suggestions based off their current location or user specified location to build a sharable social outing itinerary.
- Integrated Google Places and Geocoding APIs to provide users with accurate and relevant point of interest data.
- Utilized Firebase to implement login system and store users' previously generated outing itineraries.

Collaborative Paint

Mar 2023 – Apr 2023

Northeastern University – DLang, SDL

- Worked in a team to build a networked painting application that allows multiple users to draw on a shared canvas.
- Application uses SDL (Simple DirectMedia Layer) for drawing functionality, GUI, and event handling and client/server architecture to multicast client drawing events from the server to the other clients.
- Utilized Github continuous integration to ensure project functionality as team members added to codebase.

WORK EXPERIENCE

Northeastern University, Boston, MA

Jan 2024 – May 2024

Graduate Teaching Assistant, CS5008 Data Structures, Algorithms, and their Applications within Computer Systems

- Partnered with the course professor and other TAs to teach 150+ students.
- Provided 1-on-1 support to students on course material and assignments through scheduled office hours and tutoring.
- Lead a weekly lab session for 30+ students to encourage discussion and further explore course concepts.
- Graded, troubleshoot, and provided detailed feedback on student coding assignments.

AbbVie Bioresearch Center, Worcester, MA

Jul 2017 – Dec 2018

Biologist I, Quality Control Microbiology

- Performed laboratory assays individually and collaboratively to support facility operations and ensure patient safety.
- Analyzed test data and evaluated results to support assay performance.
- Coordinated processing and shipping of samples to external laboratories for testing.
- Trained analysts on laboratory assays and procedures.
- Provided audit support to management during internal and external agency inspections.