# **Andrew Brock**

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#### Skills

Languages: R, Python, Java, SQL, C, JavaScript, OCaml Technologies: Git, Linux, Visual Studio Code, HTML, CSS

### Education

University of Minnesota Twin Cities

Bachelor of Science in Computer Science

- Relevant Coursework: Algorithms and Data Structures, Machine Architecture & Organization, Program Design & Development
- Organizations and Awards: oSTEM, Dean's List

#### **Rochester Community and Technical College**

3.8 GPA

### Experience

#### Mayo Clinic

Data Analysis Intern

- Worked with a research group to analyze data on an early education curriculum called HappiGenius.
- Utilized R and RStudio to analyze several hundred data points collected from students and teachers.
- Created well documented code in R that could be reused or repurposed for continuing research purposes.

#### **Rochester Downtown Alliance**

Events and Marketing Intern

- Managed a stage and directed announcements during an event each week with attendance of over 20,000.
- Monitored social media analytics relating to weekly events and tracked messages on various platforms.
- Communicated with vendors over event set up and solved any ongoing issues.

#### **Randy Brock for State House**

Data Analyst Intern

- Managed a database for yard sign locations and mapped out efficient delivery paths that cut 1 hour off the time for delivery.
- Heavily utilized and managed multiple excel spreadsheets that tracked voter and volunteer information.
- Delivered signs and other campaign materials to 150 different locations in the Rochester area.

### Projects

### Maze Solver [Java]

- Used Java to create a randomly generated maze via stacks that could then be solved.
- Solving utilized a Breadth First Search algorithm with queues as the underlying data structure.

### Ranked Choice Voting Tabulator [Python]

- Used Python to replicate the tabulation process for the Minneapolis Elections which use Ranked Choice voting.
- Utilized CSV files which hold the sample ballot data. Algorithm parses through, figures out a winner, and moves them into a new file.

# Rochester, MN

### January 2020 - November 2020

Rochester, MN

Fall 2021 - Spring 2024 Minneapolis, MN

## Fall 2019 - Spring 2021

## Rochester, MN

July 2022 – September 2022

Rochester, MN

May 2022

#### November 2021

June 2022 – August 2022