

Ben Rosenberg

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EDUCATION

- **Hamline University** Saint Paul, MN
Bachelor of Science - Computational Data Science August 2022 - Present
Courses: Introduction to Programming (Python), Data Mining / Machine Learning, Introduction to R
- **Minneapolis College** Minneapolis, MN
Transfer Curriculum - Mathematics August 2021 - July 2022
Courses: Calculus II, Statistics, Environmental Science
- **Southeastern Community College** Burlington, IA
Transfer Curriculum - Mathematics August 2020 - May 2021
Courses: Calculus I, Astronomy, English Composition

SKILLS SUMMARY

- **Languages:** Python, R, JavaScript, C++, SQL
- **Frameworks:** Scikit, PyTorch, TensorFlow, Keras, Pandas, Plotly, Shiny, JUCE, SuperCollider
- **Tools:** GIT, PostgreSQL, Tableau, Processing/p5, Microsoft Office, Google Workspace, UTM
- **Platforms:** macOS, Windows, Arduino, Raspberry Pi, Google Colab

EXPERIENCE

- **Hamline Oracle** Saint Paul, MN
Data Reporter September 2022 - Present
 - **Data Accessibility:** Provided improved transparency by visualizing the school's financial, COVID, and other data only available by personal request or API calls
- **Magers & Quinn Booksellers** Minneapolis, MN
Online Sales Coordinator & Customer Service April 2021 - Present
 - **Automation:** Identified and resolved data-entry inefficiencies with JavaScript-powered tools
 - **Logistics:** Coordinated international and domestic shipping of books
 - **Customer Communication:** Provided consistent, friendly service to a high volume of customer inquiries
- **La Cuchara** Baltimore, MD
Support Staff August 2018 - March 2020
 - **Customer Service:** Provided a very high quality of service to a high volume of customers
 - **Event Planning:** Helped to coordinate, prepare, and perform many off-site events
 - **Transparency:** Improved transparency of a tip pooling system with data visualizations
- **City Cafe** Baltimore, MD
Support Staff January 2018 - July 2018
 - **Organizing & Planning:** Maintained the organization and fluency of service in a busy restaurant
- **Greenlake Ale House** Seattle, WA
Server March 2017 - December 2017
 - **Customer Service:** Provided expedient, personalized service to many regular customers

PROJECTS

- **Bookstore employee GUIs and automation:** Built a set of simple, browser-based tools to improve the workflow of repetitive data-entry tasks. Tech: REST API, JavaScript, HTML, CSS
- **Markov chain-based generative music processing:** (Work in progress) Open source, embedded program for creating novel musical output from limited inputs. Tech: Python, C++
- **Stochastic "Drum Machine":** Created a technical framework and GUI from scratch for generating musical, rhythmic noise from a set of user-controlled stochastic processes. Tech: Python, PySimpleGUI/tkinter
- **Craigslist Apartment Search Assistant:** Created an original Python script for crawling through listings matching user-inputted parameters at regular time intervals, storing, and analyzing their data. Tech: Python

SCHOLARSHIPS

- Hamline Talent Scholarships for Music and Science - August, 2022
- Minneapolis College Foundation STEM Scholarship - September, 2021

VOLUNTEER EXPERIENCE

- **Mathematics Tutor** Minneapolis, MN
Conducted online and offline lessons for students in secondary school mathematics *August 2018 - Present*
- **Copy Editing** Various / Remote
Helped peers and younger students prepare formal writing for applications or publication *August 2016 - Present*

PERSONAL EXPERIENCE & INTERESTS

- **Musical Composition & Performance** Various / Remote
Wrote, performed, and recorded original music with groups large and small *2013-Present*
- **Hobbyist Audio Software Development** Various / Remote
Developed original software for generating, processing, and organizing audio in digital formats *2019-Present*