Ben Rosenberg

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EDUCATION

- **Hamline University** — Saint Paul, MN
  Bachelor of Science - Computational Data Science — *August 2022 - Present*

- **Minneapolis College** — Minneapolis, MN
  Transfer Curriculum - Mathematics — *August 2021 - July 2022*

- **Southeastern Community College** — Burlington, IA
  Transfer Curriculum - Mathematics — *August 2020 - May 2021*

SKILLS SUMMARY

- **Languages**:   Python, R, JavaScript, HTML, CSS, C++, SQL
- **Frameworks**:   G3, Tidyverse, Tidytext, Scikit, PyTorch, TensorFlow, Keras, Pandas, Plotly, Shiny, JUCE, SuperCollider
- **Tools**:   GIT, Tableau, Processing/p5, Microsoft Office, Google Workspace, UTM
- **Platforms**:   macOS, Windows, Arduino, Raspberry Pi, Google Colab

EXPERIENCE

- **Hamline Oracle** — Saint Paul, MN
  Data Journalist — *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
  - **Tools & User Interfaces**: Developed browser-based tools to communicate key information to students and fellow journalists

- **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 audio processing**: (Work in progress) A Teensy-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 in-person 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*
- **Audio Software Development**   Various / Remote
  Developed original software for generating, processing, and organizing audio in digital formats   *2019-Present*