Ben Rosenberg

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EDUCATION

Hamline University

Saint Paul, MN

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

Bachelor of Science - Computational Data 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

o 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
- o 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

- o 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

o Organizing & Planning: Maintained the organization and fluency of service in a busy restaurant

Greenlake Ale House Seattle, WA

ServerMarch 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

Various / Remote Copy Editing Helped peers and younger students prepare formal writing for applications or publication August 2016 - Present

Personal Experience & Interests

Musical Composition & Performance Various / Remote $Wrote,\ performed,\ and\ recorded\ original\ music\ with\ groups\ large\ and\ small$ $2013 ext{-}Present$ Hobbyist Audio Software Development Various / Remote 2019-Present

Developed original software for generating, processing, and organizing audio in digital formats