

RAVI BROCK

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EXPERIENCE

Data Science Intern

Apr. 2024 - Aug. 2024

OwnersBox Fantasy Sports - Ownersbox.com

Waterloo, ON, CA

- Rearchitected and automated deployment of Google Cloud backups sytem to require 90% fewer functions
- Built data pipeline and implemented Bayesian model with a Kalman filter to predict daily revenue

Software Engineering Intern

Oct. 2022 - Dec. 2022

Indra Capital - Indracapital.tech

Fayetteville, AR

- Developed Python scripts to scrape user-generated content from social media platforms
- Processed and analyzed the scraped data for use in algorithmic trading

Student Data Journalist

Jan. 2021 - May 2021

University of Arkansas - Arkansascovid.com

Fayetteville, AR

- Used R, Excel, Tableau, and Flourish to process data and create meaningful visualizations
- Wrote, researched, and fact-checked stories about COVID-19 in Arkansas

Founder

Nov. 2018 - Nov. 2021

Arkansashype Reselling

Fayetteville, AR

- Started buying shoes and selling them on the aftermarket at 13; scaled to \$60,000+ a year of revenue
- Used Excel for accounting and R to scrape data to optimize purchasing

EDUCATION

Rice University

Aug. 2024 - May 2027

Bachelor of Arts in Computer Science

Houston, TX

University of Waterloo

Sept. 2023 - Apr. 2024

Bachelor of Mathematics (transferred to Rice)

Waterloo, ON, CA

PROJECTS

[Spellwarn.nvim](#) | *Lua, Neovim*

- Wrote Neovim plugin using Lua and Neovim APIs to show spelling errors as diagnostics
- Maintained plugin with 40+ stars on GitHub, pushed updates, and resolved GitHub issues

[Texts AI](#) | *Python, Regex, SQL, Transformers*

- Designed and built a program that uses custom MacOS integrations to automatically read and reply to new texts
- Queries messages with SQL and Regex and generates responses using multithreading and *LLaMA* or *GPT* LLMs

[Twitter Catalog](#) | *Python*

- Built a tool to find which Twitter accounts you're most likely to be interested in based on who you follow
- Implemented rate limit and API handling with Requests and used Pandas to process data

OPEN-SOURCE CONTRIBUTIONS

[Hover.nvim](#) | *Lua, Neovim*

- Implemented feature with Lua and Neovim APIs to allow the user to toggle between info sources (like LSPs)
- Resolved pre-existing GitHub issue, added useful functionality to the plugin, and updated documentation

[LeetCode Sync](#) | *JavaScript, GitHub Actions*

- Added options to show more submission information (runtime, memory, etc.) and customize file locations
- Used JavaScript and the LeetCode API to query details and improve commit messages based on user settings

SKILLS

Programming Languages: Bash, C, Lua, Python, R, Racket, SQL

Developer Tools: AWS, Git, Google Cloud Platform, Regex, \LaTeX , Valgrind, (Neo)vim

Libraries: Matplotlib, NumPy, Pandas, Requests, Seaborn

Languages: English, French