

Ravi Brock

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EXPERIENCE

Data Engineering Intern

OwnersBox Fantasy Sports

Apr. 2024 - Present

Waterloo, ON

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

Software Engineering Intern

Indra Capital

Oct. 2022 - Dec. 2022

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

University of Arkansas - Arkansascovid

Jan. 2021 - May 2021

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

Arkansashype Reselling

Nov. 2018 - Nov. 2021

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

Bachelor of Arts in Computer Science (4.0 GPA)

Aug. 2024 - May 2027

Houston, TX

University of Waterloo

Bachelor of Mathematics (89.5% average – transferred to Rice)

Sept. 2023 - Apr. 2024

Waterloo, ON

PROJECTS

Spellwarn.nvim | *Lua, Neovim*

- Wrote Neovim plugin using Lua and Neovim APIs to show spelling errors as diagnostics
- Maintained plugin with 80+ stars on GitHub, pushed updates, and responded to 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

Market Analysis | *Python, R*

- Built a tool to scrape data from crypto exchanges like Bybit and Kucoin and visualize + analyze the results
- 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

Languages: Bash, C, Java, Lua, Python, R, Racket, SQL, x86

Technologies: AWS, Git, Google Cloud, \LaTeX , Regex, Valgrind, (Neo)vim

Libraries: Matplotlib, NumPy, Pandas, Requests, Seaborn