

# Ravi Brock

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## EXPERIENCE

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### Software Engineering Intern

*Palantir Technologies*

May 2025 - Aug. 2025

*New York City, NY*

- Forward deployed software engineering intern on the US Government team
- Worked directly with clients to design and implement solutions using Foundry, LLMs, Python, and TypeScript

### Data Engineering Intern

*OwnersBox Fantasy Sports*

Apr. 2024 - Aug. 2024

*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

### 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 AWS EC2 to deploy automation software and R to scrape data to optimize purchasing

## EDUCATION

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### Rice University

*Bachelor of Arts in Computer Science*

Aug. 2024 - May 2027

*Houston, TX*

### University of Waterloo

*Bachelor of Mathematics (transferred to Rice)*

Sept. 2023 - Apr. 2024

*Waterloo, ON*

## PROJECTS

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### Orderbook | C++, CMake

- Implemented client/server order book in C++ that supports adding, cancelling, and matching orders
- Wrote custom queue-based data structures and callback logic to efficiently process orders and return fills

### 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

## OPEN-SOURCE CONTRIBUTIONS

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### 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

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

**Technologies:** AWS, CMake, Git, Google Cloud,  $\text{\LaTeX}$ , Make, Regex, Valgrind, (Neo)vim