

EVAN STEGALL

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Education

Rice University

August. 2020 – May 2024

Bachelor of Science in Computer Science, Minors in Data Science/Applied Math

Houston, TX

Technical Skills

Languages: Python, Java, Rust, C/C++, SQL/NoSQL, Javascript, HTML/CSS

Technologies/Frameworks: React, Node.js, Git, GraphQL, Azure

Relevant Experience

Chevron Corporation

May 2022 – August 2022

Software Engineering Intern

Houston, TX

- Created various internal database scrapers for large-scale data aggregation and inference for use by Chevron business units in making operational decisions.
- Wrote scripts in Python/Pandas and Java to extract and aggregate information from JSON files in order to uncover data about document life cycles, relations, and history, using PostgreSQL to pull data.
- Leveraged the use of Databricks and Apache Spark in order to maintain performance when scaling to analyzing millions of files, significantly reducing runtimes.

Rice Apps

June 2022 -

Full Stack Developer

Rice University

- Created backend for an e-commerce web app by implementing an apollo server running GraphQL, using Google Cloud for additional data storage
- Collaborated with a team using Agile methodologies developing in one week sprints

Rice University Computer Science Department

January 2022 -

Teaching Assistant

Rice University

- Served as a TA for COMP 182: Algorithmic Thinking and COMP 382: Reasoning about Algorithms
- Supported 200+ students through holding twice-weekly office hours and through providing online help

Projects

Chess Bot | *Rust*

May 2022 - July 2022

- Created a chess game with full support for FIDE rules, FEN string notation, and a CLI interface.
- Implemented an engine using a minimax search algorithm with alpha-beta pruning and quiescence search to be used in play and for analysis.

Personal Website | *JavaScript, HTML, CSS*

June 2022

- Created a shell themed personal website in React

The Missing Link | *Python*

January 2022

- Worked on a team of four to develop a link prediction model for a given social network, winning second place for best undergraduate team in the 2021 Rice Datathon
- Implemented and trained a random forest classifier using tensorflow and pandas, resulting in 70.1% precision despite highly sparse network

FEAT | *Java*

August 2021 - December 2021

- Utilized object-oriented programming principles to create an automatic test suite generator Python programs
- Took in an input of "buggy implementations" and used a greedy algorithm to find an approximately minimal set of test cases that hit every implementation
- Created internal data structures that mimic Python data structures to ensure that behavior would be constant when switching between the two languages

Additional Experience

Rice Remix CS

January 2022 - May 2022

Student Mentor

Rice University

- Taught an intro to Python course to high school students in the greater Houston Area
- Worked with another student to create engaging and effective lesson plans