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 scrappers 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, reducing run times by 100x or more.
- Presented findings to business units with reports made in Power BI.

Teaching Assistant **January 2022 -**
Computer Science Department *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

Teaching Assistant **January 2022 -**
Computer Science Department *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

Student Mentor **January 2022 - May 2022**
Rice Computer Science Club *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