

Kyle Schneider

kvschneider.com | [LinkedIn](#) | [GitHub](#) | [Blog](#)

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SOFTWARE DEVELOPER

As a results-oriented software developer with expertise in Python and JavaScript, I have a proven track record of developing robust and optimized solutions. I bring a background in math and science to my approach, resulting in rigorous research and organization. I have the ability to quantify the impact of my work, such as automating tasks through scripting to save time or enhance accuracy by implementing thorough testing. As a quick learner and curious investigator, I can deliver noticeable results soon after beginning employment with little guidance. In addition to being capable of working independently, my communication skills and ability to adapt allow me to work well in a team setting.

TECHNICAL SKILLS

HTML, CSS, JavaScript, React, React Router, Styled Components, Material UI, Python, Flask, NumPy, Pandas, SQLite, SQLAlchemy, PostgreSQL, JSON, REST APIs, Git, GitHub, Bash/UNIX shell, VS Code

PROJECTS

Chess Is Hard - [GitHub](#) - [Demo](#) - [Live Site](#)

Play chess with other users and save/view game data. Includes castling, en passant capture, pawn promotion, and all win/draw scenarios.

- Created chess game logic from scratch using Python
- Designed a clean and modern website using React with Material UI
- Built a server using Flask to support the front-end and handle chess logic

Game Browser - [GitHub](#) - [Demo](#) - [Live Site](#)

Browse popular video game titles and save them to your account. Saved games can be edited and removed, and new games can be created.

- Implemented Git for version control to track changes and collaborate with team members
- Utilized CSS to create an attractive user interface and improve user experience

Mathematics Thesis - [GitHub](#)

Research tool for calculating Laplacian Leader-Follower Dynamics properties of networks.

- Developed research-focused algorithms using Python, NumPy, and Matplotlib
- Optimized program runtime as calculations take hours/days

EXPERIENCE

Private Company, Boulder, CO

January 2022 – September 2022

Data Analyst/Junior Flight Scientist

- Improved data analysis accuracy by implementing trapezoidal integration and removing temporal interpolation.
- Automated routine tasks such as detecting aircraft turns and identifying unnatural measurements with Python.
- Took initiative to collect and aggregate documentation for a revived project.
- Refactored and suggested new features to increase accuracy and usefulness of the 2000+ line Python data analysis code for aircraft measurement data.
- Developed and tested physics equations to calculate wind velocity during unmanned aircraft flight using gravity and aircraft motion.
- Led weekly science team meetings to present ongoing research and ensure alignment on project goals.

EDUCATION

Flatiron School, Remote

January 2023 – April 2023

Full Stack Web Development, Python and JavaScript program

University of Colorado, Boulder, CO

August 2017 – May 2021

Bachelor of Arts in Mathematics, magna cum laude, GPA: 3.84

Bachelor of Arts in Physics, GPA: 3.52