

# Kyle Schneider

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

Location: Denver, CO

Email: [kylesch115@gmail.com](mailto:kylesch115@gmail.com) | Mobile: 719-502-0701

## SOFTWARE DEVELOPER

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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. In addition to being a quick learner who is capable of working independently, my communication skills and ability to adapt allow me to work well in a team setting.

## TECHNICAL SKILLS

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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, Render

## PROJECTS

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### **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](#)

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

- Constructed a front-end UI with React with React to create a single-page application
- Utilized CSS to create an attractive user interface and improve user experience
- Implemented Git for version control to track changes and collaborate with team members

### **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

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### **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

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### **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*