

Kyle Schneider

kyschneider.com | [LinkedIn](#) | [GitHub](#)

Location: Denver, CO

Email: kylesch115@gmail.com | Mobile: 719-502-0701

SOFTWARE DEVELOPER

Full-stack software developer with strong foundations in scientific computing, combining expertise in JavaScript/TypeScript, React, Python, and C++ to deliver high-performance solutions. Experience architecting cloud applications using AWS services and working with both SQL and NoSQL databases. Focused on delivering maintainable, type-safe code while effectively communicating technical solutions to stakeholders.

TECHNICAL SKILLS

Frontend:	TypeScript	React	Redux	HTML	CSS
Backend:	Node.js	Python	C++	AWS Lambda	CloudFormation
Databases:	PostgreSQL	DynamoDB	RDS	SQL	NoSQL
Dev Tools	Git	VS Code	Linux	tmux	Postman
Data Analysis:	NumPy	SciPy	Pandas	Matplotlib	ChartJS

PROJECTS

CLI Chess Application - [GitHub](#)

- Object-oriented design following separation of responsibility principles
- Multi-threaded architecture for game clock and multiple modes of user input
- Implemented comprehensive test suite using Google Test framework, achieving full coverage of game logic

Fluid Dynamics Simulation - [GitHub](#)

- Fluid dynamics simulation utilizing C++ parallelism and STL algorithms for large-scale computations
- Graphical visualization of fluid flow using Simple DirectMedia Layer (SDL2)
- Translated complex mathematical models from academic papers into efficient C++ implementations

EXPERIENCE

Charter Communications, Denver, CO

March 2025 – Present

Systems Engineer

- Designed, developed, and implemented enterprise-wide Operations Support Systems applications and their associated operating systems and databases.

Earthview, Denver, CO

May 2023 – December 2024

Software Engineer

- Architected and developed full-stack features using AWS CloudFormation, Lambda, and RDS/DynamoDB, accelerating development time by owning end-to-end feature realization.
- Designed and built data visualization tools that increased hardware performance visibility, enabling detection of critical system issues, and facilitating communicating complex datasets to customers.
- Optimized computation-heavy simulations through C++ implementation, reducing runtime by over 95% and substantially reducing cloud-compute costs.

ChampionX, Boulder, CO

January 2022 – September 2022

Data Analyst/Junior Flight Scientist

- Spearheaded revival of legacy drone technology project through comprehensive documentation and experimental validation, securing \$500K in funding and 30% resource allocation from senior science officers.
- Improved experimental data analysis by implementing optimal algorithms for nonuniform time series processing and integration, resulting in significantly more accurate curve fitting and data visualization.

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

Bachelor of Arts in Physics