

# Kyle Foster

## Senior React / Frontend Engineer

Dallas, TX • Portfolio: [foscat.dev](https://foscat.dev) • GitHub: [github.com/Foscat](https://github.com/Foscat) • LinkedIn: [linkedin.com/in/kylefoster](https://linkedin.com/in/kylefoster)

### ***Professional Summary***

React-focused Frontend Engineer with 6+ years of experience building production-grade, data-driven web applications. Specialized in React architecture, complex UI state management, role-based systems, and in-browser tooling. Former instructor who designed and shipped a live coding platform used daily by students, teachers, and administrators. Strong product mindset with a track record of translating real user needs into scalable technical solutions.

### ***Technical Skills***

- React (Hooks, Context, Component Architecture)
- JavaScript (ES6+), HTML5, CSS3
- UI Systems & Design Systems (RSuite, custom component libraries)
- Node.js, Express.js, REST APIs
- AWS (S3, Lambda), Cloud-backed persistence
- Role-Based Access Control (RBAC), Permissions Systems
- In-browser Code Execution (Sandboxed iFrames, Skulpt)
- Git, GitHub, Agile Collaboration

### ***Professional Experience***

**CodeStream Studios LLC** — Instructor & Frontend Engineer

*January 2020 – March 2025*

- Architected and built a production React application serving students, teachers, and administrators
- Designed a three-panel, browser-based IDE for Web and Python projects with live preview and cloud persistence
- Built reusable React component systems aligned with a custom frosted-glass UI design language
- Implemented classroom, organization, and licensing systems using role-based access control
- Created grading tools with dynamic UI modes (pass/fail, numeric, letter) and downloadable reports
- Integrated sandboxed code execution for HTML/CSS/JS and Python using Skulpt
- Iterated on UX and architecture using direct classroom usage feedback

### ***Selected Project***

**Daimler Trucks Hackathon – Winning Team (2019)**

- Designed a hands-free, voice-driven repair assistant for technicians
- Integrated natural-language command flow with AWS Lambda backend logic
- Delivered a working prototype selected as winner among 20+ teams

### ***Education***

**Southern Methodist University (SMU)**

Full Stack Web Development Program