Portfolio:
zenlex.dev

Github:
zenlex

LinkedIn:
zenlexltd

Code Skills:
- HTML
- CSS
- JavaScript
- Node.js
- Express
- React
- Git/GitHub
- MongoDB
- REST APIs
- GraphQL
- SQL
- Unit, Integration, and E2E testing

Design Skills:
- Lighting Design
- Sound Design
- Photography
- Figma
- Illustrator
- Photoshop
- Audition
- Video Projection

Erich Keil

Developer, Collaborator, Problem Solver, Teacher.
Tulsa, OK - erich@zenlex.dev - 773-580-1595

Summary:

I am an experienced craftsman and designer looking to build tools that make the world a better place for all. I believe this happens through collaboration with passionate problem solvers. I bring a broad set of skills in software, hardware, media, design, and project management. I strive for sustainable growth through intrinsically motivated learning and work diligently to support the development of clients, colleagues, and students.

Experience:

Zenlex Limited - *Independent Contractor/Owner*   03/2022 - Present
- Full Stack Web Development and Software Services including applications/site design and build outs, templating, and integrations.

Recurse Center - *Participant*   01/2022 - 03/2022
- Learned Modern Full Stack Web Development
  - Project Highlights:
    - [Mettabot](#) - a full stack pep talk generator - Node backend with REST API endpoints, Twitter Bot/OAuth2 functionality, and static file server. end. Vanilla HTML/JS/CSS front end with custom CSS animations.
    - [CountryInfo](#) - A search client that consumes multiple APIs to display details about countries. React styled components.
    - [Issue Tracker](#) - A REST API for tracking project issues. Node/Express server, MongoDB storage.
    - [Metric/Imperial Converter](#) - Node REST API with Jest testing.
    - [Bubbles!](#) - A generative nebula in Three.JS using native orbit controls and shadow mapping/translucency effects.
    - Completed [Full Stack Open](#) curriculum. Course Projects include: [Personal Library](#) app using GraphQL/Apollo/React/MongoDB, [Patient tracker](#) in React/TypeScript with REST API backend in Node/Express. [Anecdotes Aggregator](#) using React/Redux with toolkit and hooks.
    - Studied Unit and E2E Testing with Jest & Cypress
- Studied algorithms and data structures, Git, TDD, SSL/TLS, and SQL, NoSQL, and KV Store Databases
- Organized and moderated Design Patterns study group.

Independent Study   01/2020 - present

- *Web Development:* Free Code Camp Certs: Responsive Web Design with HTML/CSS, Front End Libraries, Data Visualization, Backend Development/APIs.
  - Project Highlights:
    - React: Random Quote Generator, Markdown Previewer, Calculator, and Pomodoro Timer.
    - Node/Express/Jest: Timestamp, Header Parser, and URL shortener, Exercise Tracker.
- *Computer Science:* Completed Harvard CS50 - Intro to Computer Science and Web Programming track(C/Python).

Tulsa Opera - *Dir. of Production*   8/2017-12/2021

- Planned and implemented a $1.5M annual production budget, oversaw all design and technical elements, and hired and managed technical crews. Designed safety and strategic planning protocols. Served as technical liaison for major construction projects. Negotiated collective bargaining agreements.

East Carolina University - *Professor*   08/2017-12/2021

- Designed and taught courses in lighting and sound design and technology for live performance. Mentored student designers and technicians. Served as Design & Production area coordinator, Lighting & Sound Designer, and Production Manager.

Bradley University - *Professor*   09/2005-07/20*17*

- Designed and taught courses in Lighting and Sound Design and Technology, Scenic Design and Stagecraft. Oversaw technical implementation and shop management. Collaborated on strategic planning, budgeting, curriculum development, and accreditation.

Community Involvement:

- *Code for Tulsa:* Member, website project lead
- *Techlahoma:* Member
- *OKCoders:* Mentor
- *Lightning Talk: "Expertise: The Rabbit Hole You Can't Climb Out Of" - Tulsa Web Devs - May 2022*
- *Lightning Talk:* "Skill Transfer as a Learning Model…" - OKC Web Devs - *February 2022*