Erich Keil

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

Portfolio:
zenlex.dev

Github:
zenlex

LinkedIn:
zenlexltd

Code Skills:
- HTML
- CSS
- JavaScript
- Node.js
- Express
- React
- Git/GitHub
- MongoDB
- REST APIs
- GraphQL
- Jest

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

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 collaborative processes with passionate problem solvers. I bring a broad variety of skills in software, hardware, media generation, design, and project management. I strive for sustainable growth through intrinsically motivated project-driven learning and to work diligently to support the continued development of clients, colleagues, and students.

Experience:

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 for front end. Vanilla HTML/JS/CSS front end with custom CSS animations.
    - [CountryInfo] - A dynamic 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/Express REST API with unit testing in Jest.
    - [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
- Attended Workshops in Git, TDD, SSL/TLS, & Databases.
- Organized and hosted 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*   08/2017-12/2021
- Planned and implemented a $1.5M annual prod. budget.
- Oversaw all design and technical elements.
- Hired and managed creative teams and technical crews.
- Designed safety and strategic planning protocols.
- Technical liaison for major construction projects.
- Negotiation of 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*   09/2005-07/2017
- 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:
- *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*
- *Code for Tulsa:* Member, website project lead
- *Techlahoma:* Member
- *OKCoders:* Mentor