

Erich Keil

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

Portfolio:
zenlex.dev

Github:
[zenlex](https://github.com/zenlex)

LinkedIn:
[zenlexltd](https://www.linkedin.com/company/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 designer and craftsman looking to build tools to 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 with React, [Patient tracker](#) in React/TypeScript with REST API backend in Node/Express. [Anecdotes Aggregator](#) using React/Redux with toolkit and hooks, [GraphQL Phonebook](#) using React/Apollo/Mongo
- 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.

Related Skills:

- Public Speaking
- Teaching
- Curriculum Development
- Research
- Strategic Planning
- Electrical Theory
- Embedded Hardware
- Exhibit Fabrication & Installation
- Electrical Theory

Education:

MFA:

Theater Design
and Technology
University of
California
Los Angeles

BA:

Theater Design
and Technology
Western Michigan
University

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*: "Skill Transfer as a Learning Model: A Case Study in Joining the Circus" - OKC Web Devs - February 2022
- *Code for Tulsa*: Member, website project lead
- *Techlahoma*: Member
- *Green Country Sierra Club*: Committee Member