

Adriana Koch

Web Developer

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SUMMARY

Full-stack development professional with expertise in Javascript, React, [Node.js](https://nodejs.org/), honed through immersive boot camp training and independent projects. Skilled in building maintainable, user-focused web applications, adept at collaborating with stakeholders, rapidly adopting new technologies, and optimizing for reliability and performance. Motivated by opportunities to contribute creative engineering solutions within collaborative, inclusive teams-particularly in environments that value continuous learning and innovation.

TECHNICAL SKILLS

Languages: Javascript, SQL, Java, Rust

Tools/Software: Git, HTML, CSS, Bootstrap, Tailwind, React, React Router, Node, Express, PostgreSQL,

TECHNICAL PROJECTS

Fullstack Academy Capstone Project Out2Gether | Frontend-Engineer | July - August 2025 | <https://out2gether.netlify.app/> | https://github.com/LBuddyBoy/Out2Gether_frontend

- Designed and developed the frontend for Out2Gether, a social platform helping couples discover, share, and organize date-night activities.
- Solved the problem of fragmented event planning by building a centralized, interactive hub where users can browse nearby spots, favorite posts, and check out experiences in different locations.
- Implemented a state-driven UI with React, ensuring seamless navigation, real-time filtering, and dynamic rendering of user-generated content.
- Build reusable components with React, React Router, Bootstrap, Tailwind, and Framer motion, improving UX through animations and modern styling.
- Integrated with a RESTful API backend, showcasing skills in request-response cycles, data fetching, context management, and component-based architecture.

SpectraLab | Fullstack-Developer | October - December 2024 | [Github Repo](#) |

- Built an interactive audio processing application that uses the Fast Fourier Transform (FFT) to deconstruct audio signals into their frequency components and reconstruct them with real-time effects.
- Solved the challenge of making complex digital signal processing accessible by designing a GUI “effects pedal” where users can apply filters, adjust frequency ranges, and visualize sound through a dynamic spectrogram.
- Implemented backend audio analysis and reconstruction in Rust, leveraging crates like `fft` and `fourier` to handle efficient frequency-domain transformations.
- Developed a responsive GUI with Slint, featuring interactive sliders and knobs that connect directly to backend logic, enabling live audio manipulation.
- Showcased expertise in fullstack integration, DSP, Rust, GUI development, and data visualization, bridging low-level mathematical computation with intuitive user interaction.

EXPERIENCE

Teaching Assistant | Apogee School For The Gifted | Indianapolis, IN

June 2023 - June 2025

- Integrated VEX into lesson plans, showcasing expertise in robotics platforms and age-appropriate coding tools.

EDUCATION

Fullstack Academy Web Development Bootcamp

February 2025 - August 2025

Software Engineering Certificate

Oberlin College and Conservatory

Expected May 2027

Completed 80 Credit Hours towards Bachelor of Arts in Computer Science and Music

VOLUNTEER EXPERIENCE

Technology Support Volunteer | Zionsville Meadows | Zionsville, IN

August 2021 - August 2025

- Assist senior residents with troubleshooting personal devices, including smartphones, tablets, and laptops.
- Provide patient, step-by-step instruction to improve digital literacy and confidence in using technology for communication and entertainment.