RYAN **ERICKSON**

FULL STACK SOFTWARE ENGINEER

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Quick learner with a passion for problem solving, I have a love for technology and a track record of accomplishments. As a former aviation professional turned web developer, I hope to leverage my skills for impactful solutions towards user-focused work. Experienced in a wide range of **skills** including:

LANGUAGES: JavaScript, Python, SQL, HTML, CSS **DATABASES:** SQLite, PostgreSQL
FRAMEWORKS: React, Redux, Node.js, Flask, Express, Mocha **TOOLS**: Git, DBDiagram, Postman
OTHER: Leadership, Collaboration, Process Improvement

WORK EXPERIENCE

CHICAGOLAND SKYDIVING CENTER >> *Freelance Lead Software Developer/Safety Advisor* **April 2021 – Present**
- Developed, designed and implemented a custom app using react, javascript and websockets for staff and customers to view live data and make important safety decisions based on that data.
- Built and integrated a custom backend portal with secure login and user authentication using Flask and Python to facilitate custom data being stored and displayed to staff and customers.
- Leveraged effective communication and collaboration through team meetings and utilizing tools such as Slack and Zoom to ensure cohesive implementation of safety measures and protocols within a high-risk environment.

UNITED STATES PARACHUTE ASSOCIATION >> *Safety and Training Advisor* **July 2021 – Present**
- Engaged with industry peers and experts at yearly safety events and other related skydiving forums to stay updated on the latest safety practices and technological advancements in order to provide accurate information.
- Provided expert safety and training counsel to hundreds of skydivers, drop zone operators, and rating holders, both online and in person, fostering an informed and cautious approach to skydiving activities.
- Conducted comprehensive in person accident investigations, reviewing video footage, interviewing witnesses, and compiling and submitting accurate incident reports through online channels.

PROJECT EXPERIENCE

SLACKER >> react, redux, javascript, python, flask, websockets [GitHub](#) > [Live](#)
- Collaborated with a team of developers to create a feature-rich real-time messaging application tailored for workplace communication needs, employing a tech stack that included React, Redux, JavaScript, Python, Flask, and WebSockets.
- Played a pivotal role in integrating WebSockets to establish live connections between users, enabling instantaneous message delivery and ensuring a seamless real-time messaging experience.
- Participated in enhancing the backend aspects of the application, leveraging Python and Flask to design and implement robust API endpoints responsible for handling messages, managing user authentication, and overseeing channel organization.

POSTERRA >> react, redux, javascript, python, flask, postgresql [GitHub](#) > [Live](#)
- Implemented user authentication and authorization using Python with Flask for the backend and PostgreSQL for the database, ensuring secure access to the platform and safeguarding user data.
- Created user-owned communities with customization options by leveraging React and Redux for the frontend, and Python with Flask for the backend, fostering a sense of engagement and ownership among users.
- Established RESTful APIs using Flask for effective communication between frontend and backend components, optimizing data exchange and maintaining a consistent user experience.

CSC WEATHER APP >> react, javascript, websockets, graphql [GitHub](#) > [Live](#)
- Utilized WebSockets to establish a live connection with an external weather station, ensuring up-to-the-second updates of weather conditions directly from the source.
- Designed an intuitive and user-friendly interface, allowing users to easily access and interpret the weather information critical for safety planning.
- Integrated dynamic data visualization tools using react-charts to display real-time weather trends, enabling users to quickly identify changes and patterns that impact their safety decisions.

EDUCATION

APP ACADEMY >> *Full Stack Software Development - Perfect Attendance* **September 2023**