

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

FRAMEWORKS: React, Redux, Node.js, Flask, Express

BEHAVIORAL: Leadership, Collaboration, Process Improvement

DATABASES: SQLite, PostgreSQL, GraphQL

TOOLS: Git, DBDiagram, Postman

OTHER: Adobe Creative Suite, ProTools

WORK EXPERIENCE

CHICAGOLAND SKYDIVING CENTER >> *Lead Software Developer*

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.
- Created a custom trivia game with JavaScript and React for the frontend, Python and Flask for the backend including a leaderboard feature to facilitate important safety info for jumpers getting licensed or recurrent.

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.

UNITED STATES PARACHUTE ASSOCIATION >> *Tandem Instructor/AFF Instructor*

Mar 2016 – April 2021

- Conducted comprehensive pre-jump briefings to ensure jumpers' understanding of safety procedures, equipment usage, and emergency protocols and demonstrated expertise in assessing weather conditions and implementing safety measures to mitigate risks, ensuring optimal jump conditions.
- Instructed individuals and groups in proper body positioning, freefall techniques, and parachute deployment, fostering a safe and enjoyable skydiving experience and contributed to the growth of the skydiving community by organizing and participating in training programs for aspiring skydiving instructors.

PROJECT EXPERIENCE

CSC WEATHER APP >> React, JavaScript, Python, Flask, Websockets, PostgreSQL, GraphQL

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- Utilized WebSockets and GraphQL 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 with JavaScript and React 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.
- Built a PostgreSQL database with RESTful api endpoints using Python and Flask to store and manipulate internal data.

CSC TRIVIA >> React, JavaScript, Python, Flask, PostgreSQL

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- Engineered an engaging trivia game using React for the frontend and Flask for the backend, implementing features such as question shuffling, timer functionality, and dynamic feedback on user-selected answers.
- Developed a dynamic difficulty selection feature, enabling users to choose between easy, medium, and hard difficulty levels, each influencing the complexity of the questions presented.
- Established RESTful APIs using Flask for effective communication between frontend and backend components, optimizing data exchange and maintaining a consistent user experience.

SLACKER >> React, Redux, JavaScript, Python, Flask, Websockets

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- 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.

EDUCATION

APP ACADEMY >> Full Stack Software Development - Perfect Attendance

CHURCHILL COUNTY HIGH SCHOOL >> Advanced Diploma