Zachary Sturman

email: **zasturman@gmail.com** | phone: **303.819.4523** | portfolio: **zachary-sturman.com**
linkedin: **linkedin.com/in/zacharysturman** | github: **github.com/ZSturman** | blog: **zacharysturman.hashnode.dev**

Technical Skills
Frontend & UI Development: React (Expert), TypeScript (Intermediate), Next.js, Redux, Tailwind, HTML, CSS, Responsive Design, Figma, Sketch
Programming Languages: Python, JavaScript, Rust, Swift, Ruby, C#, Objective-C
Cloud & DevOps: AWS (Lambda, EC2, S3, CloudFront, RDS), Docker, Firebase, CI/CD, GitHub Actions, Jenkins
Backend & API Development: FastAPI, Flask, Node.js, Express, GraphQL, RESTful APIs
Testing & Quality Assurance: Cypress, React Testing Library, Pytest, Postman, Jupyter Notebook
System Design & Algorithms: High-level and low-level architecture design, scalable systems, performance optimization
Data Tools: PostgreSQL, MongoDB, Redis, Pandas, NumPy

Full Stack Engineer (Contract)
TowardBetter.me - Remote
October 2024 – February 2025
- Spearheaded full-stack development and successful launch of Sam, a platform supporting women through complex life events.
- Architected and implemented core frontend features using Next.js, React, TypeScript, and Tailwind, ensuring responsiveness and optimal performance across devices.
- Built scalable backend APIs with Node.js and Express.
- Integrated third-party tools such as Twilio (communications) and Zoom (virtual meetings) to enhance user experience.
- Established CI/CD workflows using GitHub Actions, maintaining best practices in code quality and automated testing.

Full Stack Software Engineer
Lost & Hound - University of Melbourne, Australia
February 2024 - October 2024
- Developed and maintained React Native mobile app ensuring high-performance, cross-platform usability.
- Integrated a computer vision pipeline to match lost pet images using Python, OpenCV, and machine learning models, while ensuring efficient data handling via PostgreSQL.
- Provided technical consulting on frontend architecture, emphasizing maintainability and scalability.
- Optimized data fetching patterns, improving page load speeds and reducing API overhead.
- Delivered training sessions empowering non-profit teams to independently manage and iterate on the frontend systems.

Web Engineer
theKnifeGrinder – Anchorage, Alaska
August 20202 - November 2023
- Modernized website infrastructure using React and Next.js, enhancing performance and user experience.
- Developed RESTful APIs using FastAPI for efficient data delivery to frontend applications.
- Focused on UI/UX improvements, collaborating with stakeholders to refine user journeys and site responsiveness.

Business Intelligence Engineer
Ameristar Casino – Denver, CO
April 2017 – October 2023
- Built a Python-based analytics dashboard with complex visualizations, enabling real-time business insights.
- Conducted advanced data analysis with Pandas and Matplotlib, generating actionable business insights.

Education & Certifications
- Bachelor of Science in Media Communication – Full Sail University (2014)
- Google Certified Data Analyst (2022)
- AWS Certified Cloud Practitioner (2023)

Additional Qualifications
- **Scheduling Pipeline Application:** Designed and developed a React-based scheduling interface, delivering a responsive and intuitive UI for managing production processes. Implemented clear, maintainable frontend state management and seamless API integrations to synchronize with backend logic built in Python. Focused on optimizing user workflows and data presentation to improve efficiency.: github.com/ZSturman/Google-Sheets-Production-Schedule-Desktop-App
- **Data Labeling & Analysis Tool:** Built a cross-platform desktop application with a React-powered frontend, providing users an interactive and visually clear interface for dietary tracking and data labeling. Integrated real-time feedback mechanisms and user-friendly data visualization components. Leveraged Python and machine learning on the backend, while ensuring the frontend handled data input, display, and responsiveness effectively: github.com/ZSturman/Hows-My-Eating