

Software Engineer & Data Analyst

# ZACHARY STURMAN

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PORTFOLIO: [ZSDYNAMICS.COM](https://ZSDYNAMICS.COM)

## EXPERIENCE

### SOFTWARE DEVELOPMENT

- Developed a dynamic productivity app using Flask, integrating MySQL for robust database management. Deployed the application using Nginx, Docker, and uWSGI.

### FRONTEND & UX

- Utilized CSS, SCSS, and Bootstrap to improve user experience, optimizing web applications for both mobile and desktop environments.

### DATA ANALYSIS

- Conducted an in-depth analysis on "Examining the Effectiveness of Tip Redistributing in the Casino Industry," aimed at employee retention at Ameristar Casino in Colorado.

### FULL-STACK DEVELOPMENT

- Engineered a scalable and easily maintainable platform, [zsdynamics.com](https://zsdynamics.com), utilizing a custom-built server to manage subscribers. Implemented robust error-handling mechanisms to mitigate spam, ensuring seamless updates and maintenance.

## TECHNOLOGY

### PROGRAMMING LANGUAGES:

- Python3, R, JavaScript, HTML/CSS, Jinja2, SQL, Swift

### FRAMEWORKS & LIBRARIES:

- Flask, NumPy, Pandas, Matplotlib, OpenCV, ThreeJS, Bootstrap

### DATABASE MANAGEMENT:

- SQLAlchemy, MySQL

### SERVER-SIDE TECHNOLOGIES:

- Nginx, Docker/Docker-compose, uWSGI

## SKILLS

- Database Architecture, OOP, JSON, HTTP Requests & APIs, Unit Testing & Error Handling

## EDUCATION

- Full Sail University, Bachelors of Science in Film - 2014
- Google Data Analytics Course, Certification - 2022