Software Engineer & Data Analyst

ZACHARY STURMAN

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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, 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