Software Engineer | Data Analyst

ZACHARY STURMAN

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SKILLS

- Python | JavaScript | TypeScript | C# | Swift | HTML | CSS | React | Flask | Jinja2 | Node.js | Bootstrap | Three.js | SQL | MySQL | PostgreSQL
- MongoDB | Redis | Git | GitHub Actions | GitLab CI | Docker | Kubernetes | CI/CD | AWS | PyQT | OpenCV - *Proficient in all skills listed*

FULL-STACK DEVELOPER - FREELANCE

Chatterbox (2023 - Present) - in development

- Led the development an AI NLP web application, focusing on full-stack optimization with technologies like React, Flask, and JavaScript, ensuring efficient system architecture and improved user experience.
- Implemented Flask and JavaScript to create responsive web elements and server-side logic, streamlining data handling and API integration for enhanced application performance.

SOFTWARE DEVELOPER (FULL-STACK)

ZSDynamics (May 2023 - July 2023, Project Completion)

- Spearheaded the overhaul of a user subscription system, employing Python to integrate advanced filtering algorithms, resulting in a remarkable reduction of spam by over 90%.

SOFTWARE DEVELOPER WITH FOCUS ON DATA ANALYSIS

The Knife Grinder (2021-2023, Contract)

- Played a pivotal role in the successful sale of an Alaskan business by strategically enhancing its online presence and profitability. Achieved this through effective SEO and website optimization techniques, leading to significantly higher search rankings and increased user engagement.
- Utilized Python, R, and SQL for market and customer behavior analysis, providing insights for marketing strategies and business improvement.
- Employed data manipulation and visualization tools like Pandas, Matplotlib, and MySQL, aiding in decision-making and reporting processes.

SPEECH RECOGNITION AND ANALYSIS PROJECT

Personal Project (Feb 2023 - Jun 2023, Project Completion)

- Developed a Python and JavaScript-based NLP console application for analyzing speech patterns and identifying speakers in recorded conversations.
- Integrated an API for precise audio transcription and timing, facilitating accurate speech analysis and speaker identification.
- Utilized data processing and visualization tools such as Pandas, NumPy, and Matplotlib to enhance the application's statistical analysis capabilities.
- Employed advanced NLP techniques with Scikit-learn to improve the accuracy and efficiency of speech recognition.

SOFTWARE DEVELOPER & DATA ANALYST (FREELANCE)

Ameristar Casino (Aug 2022 - Dec 2022, Project Completion)

- Engineered a data analysis system to optimize employee retention and tip distribution, involving automation of analysis pipelines and development of a web-based data management platform.
- Performed extensive statistical analysis using Python, R, and SQL to identify key factors affecting employee satisfaction and tip impacts.
- Created interactive visualizations using Matplotlib and Streamlit, facilitating effective communication of complex data to stakeholders and supporting HR decision-making.

EDUCATION

- Bachelor of Science in Film - Full Sail University (2014) | Google Certified Data Analyst (2022) | AWS Certified Cloud Practitioner (2023)