

Alexander Frank

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Skills

Web HTML5, CSS3, SASS, React, Node.js, GraphQL
Languages TypeScript, JavaScript, Java, Python, SQL
Tools AWS, Docker, Kubernetes, Git, Linux

Professional Experience

Southwest Airlines

Software Engineer | June 2021 - Present

- ❖ Develops and supports mission-critical applications and services within Crew Scheduling and Recovery, serving over 9,000 pilots, 16,000 flight attendants, and hundreds of schedulers daily
- ❖ Automated Kubernetes log processing using bash scripts, reducing a 5-minute manual process to less than 5 seconds, resulting in a 98% improvement in troubleshooting efficiency
- ❖ Mentored team members and conducted knowledge transfer sessions on a business rule management system, significantly enhancing the team's expertise and efficiency in developing and maintaining complex business rules and decision logic
- ❖ Collaborates with cross-functional teams to deliver key functionality on aggressive timelines, contributing to the successful delivery of critical projects

Personal Projects

DevChat

github.com/alexfrankcodes/devchat

- ❖ Built with TypeScript, React, Node.js, Express, and Socket.io
- ❖ Front-end deployed on Netlify, back-end deployed on Heroku
- ❖ Implemented real-time chat functionality from scratch, allowing multiple users to join rooms and communicate
- ❖ Created and styled clean, modular front-end components to provide an enjoyable user experience

Twitter Opinion Analyzer

github.com/alexfrankcodes/twitter-opinion-analyzer

- ❖ Built with Python, Flask, deployed on Heroku
- ❖ Integrated with Twitter API to pull the 100 most recent and popular tweets on a user-provided subject
- ❖ Implemented basic sentiment analysis on retrieved tweets using the TextBlob NLP library

Education

San Jose State University

Bachelor of Science, Software Engineering | 3.3 GPA

- ❖ 4.0 GPA in core upper-division track
Software Engineering I, Software Engineering II, Senior Design Project I, Senior Design Project II

Awards

Best of Show, SJSU Technology Showcase

- ❖ Developed Ally, a habit-tracking mobile application for Alzheimer's patients, beating over 40 other teams