

Caleb Kress

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Technical Skills

- **Languages:** Python (NumPy, Pandas, scikit-learn), JavaScript, Java, C++, C, TypeScript
- **Quantitative Analysis:** Predictive modeling, feature engineering, data analysis
- **Technologies:** Linux, AWS EC2, Git, MongoDB, MySQL
- **Web Development:** React.js, API design
- **Methodologies:** Agile, team collaboration

Employment History

St. Edward's University – Technical Advisor: Software Engineering I

Austin, Texas

Jan 2024 – May 2024

- Guided four student teams in developing full-stack software applications.
- Facilitated discussions, problem-solving sessions, and sprint retrospectives.
- Conducted code reviews, promoting scalability.

Education

St. Edward's University, Austin, TX

Bachelor of Science, Computer Science

Graduated May 2024

Hack Reactor, Austin, TX

Immersive Software Engineering Program

Graduated Jan 2018

Relevant Project Work

HomeScope

A machine learning-driven home price prediction application for the Austin, TX area.

- Developed a home price prediction algorithm (random forest), achieving a 0.59 R-squared score.
- Created a responsive front-end with JavaScript and Bootstrap, deployed on AWS EC2/Amplify.
- Improved model accuracy through feature engineering and data preprocessing techniques.

WeGo Transportation Solutions

A TaaS delivery service for the medical industry utilizing simulated autonomous vehicles.

- Collaborated on a full-stack application with a 9-person Agile team.
- Developed Python and React.js stack, deployed via Nginx/Flask/Gunicorn on Digital Ocean Droplet.
- Integrated real-time order tracking with MapBox utilizing a multi-threaded vehicle simulator.