

# Conner Replogle

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## EDUCATION

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### University of Texas At Dallas

Computer Engineering, GPA 3.87

Plano, TX

Aug. 2023 – May 2027

## EXPERIENCE

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### Chief of Engineering for the University Rover Challenge

Jan 2024 – Present

URC, University of Texas at Dallas

Plano, TX

- Led and coordinated three sub-teams focused on different aspects of rover construction, while spearheading the planning and implementation of electrical and software systems.
- Developed and integrated a stereoscopic vision system and a long-range antenna system to enhance the rover's capabilities. Engineered and implemented an autonomous driving solution for the rover.
- Directed the team in preparation for and participation in an international competition.

### Mobile Software Developer Intern

Jan. 2024 – Present

Redprint

Remote

- Proficient in Swift UI and React Native for developing cross-platform mobile applications.
- Collaborated with a team to enhance UX design and optimize backend server functionality.
- Contributing to the development and launch of an Android version of the app.

### Software And System Security Undergraduate Research

Aug 2024 – Present

S3 Lab, University of Texas at Dallas

Plano, TX

- Conducted undergraduate research in the S3Lab.io, focusing on enhancing the security of robotic devices and ensuring real-time error prevention.
- Helped with Researcher Zelun Kong's project, to develop security protocols and analysis tools for robotic systems.
- Specialized in real-time threat detection and mitigation, contributing to the advancement of secure robotic technologies.

### Small Business Website Developer

May, 2020 – Present

Freelance

Magnolia, TX

- Utilized JS and Astro to design and develop multiple small business websites, ensuring scalability and high performance.
- Engineered solutions to handle thousands of customer interactions daily, maintaining site reliability.
- Integrated websites with major shipping companies, streamlining order processing and improving logistics efficiency.

## PROJECTS

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### Gritly | React Native, Astro, PostgreSQL

- Released a feature-rich habit tracking mobile app with a intuitive user interface written in React Native.
- Implemented seamless database synchronization, ensuring real-time data consistency across devices.
- Successfully launched the app on the App Store, achieving adoption by hundreds of users within the first few weeks.

### Low Latency Video Streaming | Rust, JS, WebRTC

- Built a system to receive video streams over 1km, crucial for URC Club's rover operations.
- Implemented server-side transcoding to ensure video is optimized for browser playback with minimal latency, essential for real-time control.
- Utilized WebRTC for efficient, low-latency video streaming directly to web browsers, addressing the challenge of no line-of-sight and limited throughput.

### Flashcard Site | Rust, MongoDB, Astro, TS

- Designed an intuitive frontend with Astro, providing a seamless and responsive learning experience.
- Built a robust backend using Rust, ensuring high performance.
- Used Data Processing/ML to provide user with feedback to optimize learning.
- Integrated MongoDB for efficient data storage and retrieval, supporting complex queries and large datasets.

### Crypto Trading Interface | Rust, PostgreSQL

- Connected to the Binance API, enabling automated trade executions and real-time market analysis.
- Executed trade orders totaling over \$100,000, allowing for the team to quickly execute trading strategies for maximum profitability.
- Used Docker to scale and manage, ensuring high availability and reliability of trading operations.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, Typescript, HTML/CSS, Rust, C#, Swift, GO

**Frameworks:** React, Node.js, Flask, Astro, React Native, Actix, SwiftUI,

**Developer Tools:** Git, Docker, Google Cloud Platform, AWS

**Libraries:** PyTorch, Tensorflow, Keras

**Embedded:** Arduino, STM-32, ESP-32

**PCB-Design:** Ki-Cad, Altium

**Databases:** MongoDB, SQL (Postgres), Redis