

# ZACHARY STEEN

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## EDUCATION

### University of Texas

Master of Science in Computer Science, *GPA: 3.90*

Austin, TX

*Aug 2021 - Present*

### Texas A&M University

Bachelor of Science in Computer Engineering with Honors, *GPA: 3.87*

Minors in Business and Mathematics

Dean's Honor Roll, Departmental Awards and Scholarships

College Station, TX

*Sep 2017 - May 2021*

## EXPERIENCE

### USAA

*Software Engineer*

San Antonio, TX

*Sep 2021 - Present*

- Boosted business **CRM software** reliability to a **99% SLO**, by developing the new modernized *Conversant* system
- Enhanced productivity for **33k unique employees monthly** by creating and deploying improved functional UI components with automated testing using **React** with **Redux**, in collaboration with designers
- Improved API performance and stability, handling **40M monthly calls**, by transitioning the *Enterprise Disclosure Widget* experience API from JBoss to the more efficient **Spring Boot** framework
- Strengthened system security and legal compliance by pioneering a modernized *Instance-Based Security* infrastructure API, **called 25M times per month**
- Delivered **annual savings of \$750k** by designing and developing a new *Conversant Admin Tool* which empowers non-technical staff to easily configure job-specific UI settings via **JSON files**

### USAA

*Software Engineer Intern*

San Antonio, TX

*May 2020 - Aug 2020*

- Ensured legal compliance of **5M monthly transactions** by developing and supporting the *Enterprise Disclosure Widget*, a **React** with **Redux** UI component
- Reduced support requests **by 30%** and shortened the time-to-integrate for our consumer developers by creating a demo app of reusable integration/testing code for common flows with the UI component

### Atriecon SDG

*IT Intern*

San Antonio, TX

*May 2019 - Aug 2019*

- Automated business-critical AutoCAD jobs on **multi-million dollar projects** for an architecture firm
- Reduced batch job run-time **from 3 hours to 10 minutes** by migrating legacy 16-bit **C** code to modern **C++**, eliminating the need for emulation

## PROJECTS

### WatchExchanger.com SaaS Webapp

[www.watchexchanger.com](http://www.watchexchanger.com)

*Companion app for Reddit's r/WatchExchange community*

- Sends **thousands of notifications per month** to a growing user base via **AWS SES** and **SNS**
- Built on **AWS**, has a **React** interface for users to subscribe to topics, then consumes the Reddit API via a **Lambda Step Function** serverless backend to send all relevant emails/texts in **less than a minute**
- Integrates **Stripe** as a payment processor via **Webhooks** and **AWS SQS**

### Microsoft HoloLens Eye-Tracking Research

[www.github.com/zsteen13/HoloLensResearch](https://www.github.com/zsteen13/HoloLensResearch)

*Department sponsored augmented reality research with applications in logistics and warehousing*

- Utilizes user eye-gaze to decrease frequency of robot-human collisions **by 80%**, in **Unity** via **C#**
- Decreased run-time of A\* path-finding algorithm **from 25ms to 11ms** with **heap-optimization**
- **Top featured project** at the Texas A&M 2021 Engineering Project Showcase **out of over 200 teams**

### Participation Tracker Webapp

[www.github.com/zsteen13/EH\\_ExComm\\_Participation\\_Tracker](https://www.github.com/zsteen13/EH_ExComm_Participation_Tracker)

*Point tracker app currently used by the Texas A&M University Engineering Honors department*

- Automates department's tracking of participation status for **hundreds of students**, via **Ruby on Rails**

## SKILLS

Languages	Java, JavaScript, HTML/CSS, GraphQL/SQL, Python, L <sup>A</sup> T <sub>E</sub> X
Frameworks	Spring Boot (JUnit/Mockito), React (Redux/RTL), PyTorch
Tools	AWS (CloudWatch, Cognito, DynamoDB, Lambda, SES/SNS), Git, Jira, Splunk, Elastic, Postman
Certifications	AWS Certified Cloud Practitioner, Git, React (Design Patterns, Hooks)