

ZACHARY STEEN

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EDUCATION

University of Texas

Master of Science in Computer Science, *GPA: 3.89*

Austin, TX

Aug 2021 - Now

Texas A&M University

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

Minors in Business and Mathematics

Dean's Honor Roll, Departmental Awards/Scholarships

College Station, TX

Aug 2017 - May 2021

EXPERIENCE

USAA

Software Engineer

San Antonio, TX

Sep 2021 - Now

- Built/supported new high-scale CRM software, *Conversant*, to an SLO of **99% availability**
- Collaborated with designers to create functional UI components via **React** with **Redux**, with automated testing, to be **used by 33k unique employees per month**
- Rewrote the *Enterprise Disclosure Widget* experience API in **Spring Boot**, called **40M times per month**
- Implemented a modernized *Instance-Based Security* infrastructure API, and various search APIs in **Spring Boot**, called **2M times per month** (early stage, undergoing slow roll-out)
- Design/developed parts of the new *Conversant Admin Tool*, enabling non-technical staff to configure job-specific UI settings via JSON files, resulting in an estimated **annual savings of \$750k for the business**

USAA

Software Engineer Intern

San Antonio, TX

May 2020 - Aug 2020

- Joined a team that develops/supports the *Enterprise Disclosure Widget*, a **React** with **Redux** legal compliance UI component that enterprise developers consume
- **Shortened the time-to-integrate** for our consumer developers by creating a demo app of reusable integration/testing code for common flows with our UI component

Atriecon SDG

IT Intern

San Antonio, TX

May 2019 - Aug 2019

- Addressed software needs of an architectural firm and **automated business-critical AutoCAD jobs**
- Translated **C** code written for 16-bit machines into **C++** code for modern computers, **dramatically improving run times** of some batch jobs

PROJECTS

WatchExchanger.com Webapp

www.watchexchanger.com

- Companion app for Reddit's r/WatchExchange community, sending **thousands of notifications per month** to a growing user base via **AWS SES/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

- Using **Unity** via **C#**, augments a robot model into the room with the user and uses their eye-gaze to make the **path finding** of the robot safer as it completes tasks, with logistics/warehousing applications
- Honors research project sponsored by the Texas A&M Department of Electrical and Computer Engineering, **selected as a featured project** at the Texas A&M 2021 Engineering Project Showcase

Participation Tracker Webapp

www.github.com/zsteen13/EH_ExComm_Participation_Tracker

- **Ruby on Rails** point tracker app used by the Texas A&M University Engineering Honors department
- Automates process of tracking points according to department rules for **hundreds of students**

SKILLS

Languages	Java, JavaScript, HTML/CSS, GraphQL/SQL, Python
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)