Alexis J. Renderos

Software Development Engineer / Secret Security Clearance (Inactive, eligible for reinstatement + TS/SCI)

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Work Experience

Software Engineering Intern @ Dreambound / Ladder Labs Corporation
Jan 2021 – Present / San Francisco, California
- Developed mission-critical, performant, and reliable customer facing products in addition to key internal tools using **React**, **TypeScript**, and **GraphQL.**
- Built and shipped Dreambound's new internal credit reporting software, in addition to staff, customer, and training provider self-service portals.
- Migrated existing operations flows from 3rd party solutions to in-house solutions with a specific focus on reliability and robustness.
- Established, designed, and maintained over **100** unit, integration, and regression tests, using **Jest**, maximizing code coverage over a rapidly expanding codebase.

Software Engineering Intern @ Slack Technologies, Inc.
May 2020 – Aug 2020 / San Francisco, California
- Spearheaded development of Slack's new Android mobile video calling feature for use by over **10M** Daily Active Users in over **150** countries.
- Acted as a product owner, translating key business needs into features, making critical design decisions for the product while ensuring top-notch quality and security.
- Developed key design documents from initial product development stages to production, specifically focusing on delivering an unparalleled user experience.
- Architected core front-end and back-end functionality leveraging **Java** and **Kotlin**.
- Refactored existing native calls code to utilize new AWS Chime endpoints, quadrupling the number of potential concurrent mobile video streams and decreasing latency by **25%.**
- Refined and perfected Slack's end to end automated testing suite using **TypeScript.**

Software Engineering Intern / Campus Ambassador @ Collins Aerospace
May 2019 – May 2020 / Cedar Rapids and Ames, Iowa / Active Security Clearance: Secret
- Developed robust mission-critical software using **C++** for the ARC-210 family of military radios used by **40+** countries on **180+** platforms and awarded **$2.5B** in defense contracts.
- Spearheaded development and final implementation of a new feature to simulate extreme field conditions for use both in the field, and in-house for manual and automated testing.
- Designed, maintained, and optimized over **75** automated tests in **Python** for regression testing, reducing overall test time by **10%** and maximizing code coverage.
- Authored design documentation using **PlantUML** to describe key system features.
- Represented Collins Aerospace by sharing information and personal experiences with students at Iowa State University and prospective hires.

Assistant General Manager / Chief Operator @ 88.5 KURE Ames Alternative
Sept 2018 – Present / Ames, Iowa
- Oversaw all broadcast functions, ensuring the radio station met legal requirements while also maximizing on-air quality, community and staff engagement, and station listenership.
- Coordinated a team of **25** directors and interns in addition to **50** DJs and talk show hosts.
- Proposed and implemented a new high-impact internship program with a focus on career growth, increasing talent acquisition by **135%** and reducing churn rate by over **200%.**
- Expanded station listenership by **350%** through the implementation of a comprehensive 5-year plan for aggressive station growth and development.
- Minted vital strategic partnerships with local business owners and prominent community members to foster the development of the radio station.

Education

B.S. Computer Engineering @ Iowa State University   *On Leave / 3rd year completed*
- Google Hispanic Student Leadership Scholar
- Code2040 Fellow

Skills

Programming Languages
TypeScript, JavaScript, C++, Python, Java, HTML, CSS, Kotlin

Libraries & Frameworks
React, GraphQL, Apollo, NextJS, Jest, TensorFlow, Keras, OpenCV, Node.JS, ROS

Tools & Software Applications
Git, CI/CD, Jira, Confluence, Bitbucket, Bamboo, Linux, Android Studio, LaTeX

Languages
English, Spanish, German

Organizations

FIRST Robotics Competition
- Software and Electrical Mentor

Awards

HackUIOWA 2019
- Best Use of .xyz Domain

HackISU 2019
- Tastiest Hack

HackISU 2018
- Best Rookie Hack

FIRST Robotics Competition
- 2016-17 Dean's List Finalist
- Innovation in Control Award

Projects

Lifedrinker
Convolutional Neural Network (CNN) taught to identify an object of interest at range using a live camera feed in conjunction with a **Python**-based **OpenCV** tracking algorithm to assist in detecting, identifying, and tracking a target.

Clark
60-pound semi-autonomous custom designed and fabricated robot running on **ROS**. It uses sensor fusion techniques, computer vision algorithms, and a convolutional neural network to navigate its surroundings.

7Words
Python-based web tool launched on **Heroku** intended to mass lyric check a set of songs. It uses the Genius and Spotify APIs to search through a playlist of songs for language that could go against FCC broadcasting guidelines.