Alexis J. Renderos

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

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Work Experience

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**.
- Proposed and implemented scalable solutions to issues identified with legacy codebase.
- 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.**
- Worked closely with Amazon engineers to integrate functionality from AWS Chime.

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.
- Streamlined and optimized existing codebase for use in the 6th generation of the product.
- 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 of Broadcast @ 88.5 KURE Ames Alternative
Sept 2018 – Present / Ames, Iowa
- Oversaw all broadcast functions, ensuring the radio station met FCC requirements while also maximizing on-air quality, community and staff engagement, and station listenership.
- Coordinated a team of 12 directors in addition to 50 DJs and talk show hosts.
- Introduced and implemented **project management methodologies**, including formal milestone-based plans and clear definitions of budgets, targets, deliverables, and priorities.
- Expanded station listenership by **350%** through the implementation of a comprehensive 5-year plan for aggressive station growth and development.
- Spearheaded new vital strategic partnerships with local business owners and prominent community members to foster the development of the radio station.

Makerspace Technologist / Technical Support Specialist @ Ela Area Public Library
Aug 2016 – Aug 2018 / Lake Zurich, Illinois
- Developed, taught, and evaluated a variety of technology and maker programs.
- Increased technical program participation and attendance by **240%** by developing and introducing innovative programs to serve the local community.
- Generated and maintained documentation, reports, and statistics to foster the long-term growth and development of the makerspace.

Education

B.S. Computer Engineering @ Iowa State University   *Expected May 2022*
- Recognized as a Google Hispanic Student Leadership Scholar
- Code2040 Fellow

Skills

Programming Languages
Java, C++, C, Python, JavaScript, TypeScript, HTML, CSS, Kotlin, Go, PHP, SQL, VHDL

Libraries & Frameworks
TensorFlow, Keras, OpenCV, Node.JS, React, Angular, Bootstrap, ROS, MongoDB

Tools & Software Applications
Git, CI/CD, Jira, Confluence, Bitbucket, Bamboo, Coverity, Android Studio, LaTeX, TCP/IP, Linux, Cloud Computing

Languages
English, Spanish, German

Organizations

Cyclone Rocketry
- Avionics Team Member

FIRST Robotics Competition
- Software and Electrical Mentor

Awards

HackUIOWA 2019
- Best Use of .xyz Domain

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 the 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.