

Alexis J. Renderos

Software Engineer

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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.
- Utilized **Java** and **Kotlin** in a small team of 2 developers practicing **Agile** and **Kanban**.
- Refined and perfected Slack's end to end automated testing suite using **TypeScript**.
- 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.
- 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 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.
- Designed and maintained automated tests in **Python** for regression testing.
- Generated documentation using **PlantUML** to describe key system features.
- Practiced **Agile** and **Scrum** in 2-week sprints with a team of 10 developers.
- 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.

Systems Support Specialist @ Iowa State University Biology IT

Feb 2019 – May 2019 / Ames, Iowa

- Worked constructively with researchers to develop innovative technical solutions.
- Analyzed new and emerging technologies for researchers to implement.
- Generated and maintained documentation to develop and curate a knowledge base to train and educate future S³'s.

Makerspace Technologist @ Elia 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 best.
- 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

- Recognized as a Google Hispanic Student Leadership Scholar
- Code2040 Fellow

Skills

Programming Languages

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

Libraries & Frameworks

TensorFlow, Keras, OpenCV, Node.JS, Express, React, Babylon.JS, Bootstrap, ROS

Tools & Software Applications

Git, CI/CD, Jira, Confluence, Bitbucket, Bamboo, Coverity, Android Studio, LaTeX

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 and computer vision algorithms 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.