# Austin Rognes

**Active Secret Security Clearance**

[arognes.com](http://arognes.com) ◦ aurognes@gmail.com ◦ 515-619-1910 ◦ San Antonio, TX

## EDUCATION

**Iowa State University B.S. Software Engineering, December 2022**
- Minor in Cyber Security.
- GPA: 3.31

## WORK EXPERIENCE

**Northrop Grumman, San Antonio, TX: Associate Embedded Software Engineer**          *January 2023 - Present*
- Worked on complex systems written in C++ in an Agile focused team.

**Hy-Vee, Grimes, IA: Software Engineering Intern**          *May 2022 - December 2022*
- Pair programmed to add Novavax vaccination to the pharmacy website and server.
- Explored full-stack development with C#, React, TypeScript and Apollo GraphQL.
- Collaborated on sending vaccination data to a healthcare company API, reducing faxing costs by over 90%.
- Identified and resolved an application wide bug by extending the built in JavaScript Date object to mirror MomentJS.
- Ensured WCAG 2.1 compliance was upheld on every vaccination form page.
- Implemented activation toggles for new COVID vaccines for safe and incremental releases.
- Deepened my understanding of Git, testing ideologies, and Agile methodology.

**Iowa National Guard: Sergeant/E5**          *February 2017 - Present*
- 12 month deployment overseas as an air defense battle management system operator.
- Integrated into 3 different teams for 3 months each during deployment.
- Operated, maintained, and trained other soldiers on air defense systems.
- Worked with people of many vastly different cultures and belief systems from all over the world.

## PROJECTS

**Collins Aerospace: Simultaneous Call Transmission**          *January 2022 - December 2022*
- Created an ML model that detects multiple concurrent radio transmissions with 4 other teammates.
- Collaborated with 3 electrical engineers to simulate isolated and interfering aircraft radio transmissions.
- Setup CI/CD to generate new training data every time radio simulation was modified.

**Equipment-Record**          *August 2021*
- Created a Firebase web-app specialized for managing construction equipment using qr-code labels. Centralizes equipment records previously disseminated through printed excel documents. Records lost equipment for each job site and expands employee access to information of equipment availability.
- Deepened understanding of SvelteKit, TypeScript, SSR, SPA, and PWA.

**Keyboard**          *April 2022 - August 2022*
- Designed and manufactured a split, ergonomic, 42 key, bluetooth keyboard pcb using KiCad.

**Affordable Housing**          *March 2017 - April 2017*
- Designed an affordable house that was built in Des Moines, IA using Autodesk Revit for the [Polk County Housing Trust Fund](http://www.polkcountyhousing.org).

## SKILLS

**Programming Languages**
- Highly Skilled in JavaScript, TypeScript, Python, C and C++.
- Fluent in SQL and NoSQL languages, C#, .NET, PowerShell, HTML/CSS, Java and VHDL.

**Tools and Frameworks**
- Highly Skilled in Git and Object Oriented Programming.
- Experience with Linux, React, Sveltekit, Firebase, GraphQL, Vim, Jira and plenty more.

**Certifications**
- [CS50x online Harvard class](https://cs50.harvard.edu): Introduction to Computer Science 2020.

## ACTIVITIES AND CLUBS

- Made open source contributions and built small projects in 24-48 hour hackathons with the ISU Hackathon Club.
- Played capture the flag on green team three times with the Information Assurance Club.
- Competed in the MIT Battlecode 2020 competition with the ISU AI Club.
- COMS 309 Fall 2021: Top programmer of the semester award.
- Ran the 2019 Boston Marathon in 2:51.20. Placed 1203 out of 27360 total runners