

# Austin Rognes

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## EDUCATION

### Iowa State University B.S. Software Engineering, December 2022

- Minor in Cyber Security
- GPA: 3.39

### 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: Top programmer of the semester award.

## WORK EXPERIENCE

### Hy-Vee, Grimes: Software Engineering Intern

May 2022 - August 2022

- Collaborated on sending vaccination data to a healthcare company api to reduce 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.
- Updated vaccination form information display logic to reflect CDC guidelines.

### Hy-Vee, Grimes: Software Engineering Part Time

August 2022 - Present

- Pair programmed to add Novavax vaccination to the pharmacy website and server.
- Deepened my understanding of git, testing ideologies, MVP and scrum sprints.
- Explored full-stack development with C#, React, TypeScript and Apollo GraphQL.

### Iowa National Guard: Sergeant/E5

February 2017 - Present

- Deployment: Air Defense Battle Management Operator.
- Integrated into 3 different teams for 3 months each.
- 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 individual and interweaved aircraft radio transmissions.
- Setup CICD 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.

## SKILLS

### Programming Languages and Tools

- Highly Skillful in JavaScript, TypeScript, Python and C.
- Fluent in with SQL and noSQL languages, C#, .NET, Powershell, HTML/CSS, Java and VHDL.

### Tools and Frameworks

- Highly Skillful in Git and Object Oriented Programming.
- Experience with Linux, React, Sveltekit, Firebase services, Apollo GraphQL, Vim, JIRA and plenty more.

### Certifications

- CS50x online Harvard class: Introduction to Computer Science 2020.