# **Austin Rognes**

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### **EDUCATION**

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

- Minor in Cyber Security
- ∘ GPA: 3.39

#### **WORK EXPERIENCE**

### Hy-Vee, Grimes: Software Engineer 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.

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

May 2022 - August 2022

- · 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.
- $_{\circ}$  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.

## **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.

### **SKILLS**

## **Programming Languages**

- Highly Skilled in JavaScript, TypeScript, Python 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 services, Apollo GraphQL, Vim, JIRA and plenty more.

#### **Certifications**

• CS50x online Harvard class: 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. I placed 1203 out of 27360 total runners (top 4.4%).