Austin Rognes

Active Secret Security Clearance
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 scrum sprints using Atlassian Jira.
◦ Collaborated on multi-repository C++ projects using Gitlab as well as pipeline testing.
◦ Gained a conceptual understanding of synchronous and asynchronous LADAR camera intricacies from domain experts.
◦ Refactored an asynchronous LADAR camera system to also handle synchronous camera input.
◦ Designed a multithreaded class architecture to handle camera frame translation from asynchronous to synchronous input.
◦ Leveraged Matlab to convert camera frames between FPGA output formats.
◦ Setup GoogleTest for unit testing and built a separate C++ application for end to end testing.

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.

PROJECTS

Collins Aerospace: Simultaneous Call Transmission   *January 2022 - December 2022*
◦ Created an ML model that detects multiple concurrent radio transmissions with 4 other classmates.
◦ 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.

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, 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](#): Introduction to Computer Science 2020.

ACTIVITIES

◦ 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