

# Ryan Anselman

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## Summary

As an adaptable and driven engineer, I've consistently navigated the world of innovation, leading mission-critical projects and driving significant outcomes. My journey has taken me from working on high-performance controller firmware for memory systems to collaborating with diverse teams and tackling complex challenges.

I've found that the power of teamwork, effective communication, and a forward-thinking mindset are key to thriving in high-pressure environments. These principles guide my approach, enabling me to exceed expectations, foster innovation, and stay focused on the task at hand.

Over the years, I've developed a unique blend of technical expertise and leadership skills. I'm committed to excellence and always ready for the next challenge. I'm excited about the potential to make a significant impact on future projects, driving success through innovative solutions.

Looking ahead, I aim to continue growing, taking on new challenges, and contributing to cutting-edge technology solutions. For a glimpse of some of my current projects, feel free to check out my portfolio site at [Anselman.com](https://Anselman.com).

## Experience



### Software Developer

MatterMixers

May 2022 - Present (1 year 2 months)

- Developed custom Python and JavaScript applications, optimizing efficiency and productivity.
- Implemented automated testing for reliable software delivery.
- Built robust full-stack applications using the MERN stack.
- Integrated Terraform into the CI/CD pipeline for seamless infrastructure provisioning.
- Utilized various AWS services to create resilient and scalable cloud-based solutions.



### Firmware Validation Engineer

Micron Technology

Jun 2021 - Jul 2022 (1 year 2 months)

- Developed high-performance controller firmware for memory systems, enhancing power efficiency, reducing latency, and simplifying SoC complexity.
- Collaborated with cross-functional teams to overcome development challenges, improving product performance and market competitiveness.
- Built and debugged firmware for new memory controllers and SSDs, aiding in the successful launch of innovative products.
- Mentored junior team members, fostering professional growth and knowledge transfer.

- Excelled in delivering high-quality results independently under high-pressure, multi-priority situations.
- Conducted failure trials and participated in issue resolution, enhancing product reliability and performance.
- Streamlined firmware development and testing process through the configuration of a robust Jenkins pipeline.
- Utilized Python to develop firmware and automate testing processes, accelerating development cycles.
- Applied knowledge of storage interfaces and non-volatile storage technologies in the design and optimization of firmware for SSD storage systems.



## **Customer Engineer II**

NCR Corporation

Dec 2020 - Jun 2021 (7 months)

- Led a maintenance program, improving system reliability and minimizing downtime.
- Addressed critical incidents with payment processing infrastructure, ensuring uninterrupted transaction processing.
- Resolved complex technical challenges related to point-of-sale software, improving customer experiences and transaction processes.
- Implemented robust security measures to protect sensitive customer data, maintaining compliance with PCI Validation standards.
- Exceeded Service Level Agreements by promptly resolving incidents and conducting thorough problem determination and root cause analysis.



## **Network Technician**

Kenyatta Computer Services

Jan 2019 - Dec 2020 (2 years)

- Configured and deployed network hardware components, ensuring robust and secure network connectivity.
- Executed system overhauls, improving network uptime and reducing potential disruptions.
- Developed expertise in various networking technologies, enabling effective network software configuration and optimization.
- Identified and addressed network bottlenecks, ensuring long-term network efficiency.
- Demonstrated proficiency in troubleshooting and resolving configuration, network, and software issues.
- Utilized wireless analysis tools to perform comprehensive wireless network assessments, optimizing network performance.

## **Education**



**University of Colorado Boulder**

Master of Science in Computer Science (MS-CS), Computer  
Science Aug 2022 - Dec 2024

The MS-CS program includes a broad range of interdisciplinary studies in the cutting-edge fields of AI and robotics, electrical engineering, engineering management, and data science.



### **The Evergreen State College**

Bachelor of Science - BS, Biochemistry

2016 - 2018

Organic chemistry, biology, biochemistry, calculus-based physics, and technical writing for primary literature, Bioinformatics, neural networks, algorithms and data structures, computer architecture, and data science.

## **Licenses & Certifications**



**Cisco Certified Network Associate Routing and Switching (CCNA) - Cisco**

## **Skills**

Python • Linux • Git • SQL • JavaScript • TypeScript • React • JavaScript • Node.js  
MongoDB • AWS • Jenkins • Jira