Francis Anselman

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Summary

I am an adaptable engineer with a proven track record of leading mission-critical projects and driving remarkable outcomes. From contributing to groundbreaking high-performance controller firmware for memory systems, to collaborating closely with diverse teams and overcoming complex challenges, my achievements speak to my ability to deliver exceptional results. With a focus on teamwork, effective communication, and a forward-thinking mindset, I thrive in high-pressure environments, consistently exceeding expectations and fostering innovation. I bring a unique blend of technical expertise, leadership skills, and a relentless commitment to excellence, making me poised to make a significant impact in future projects and drive success through innovative solutions.

Experience

🧪 Software Developer

MatterMixers

May 2022 - Present (1 year 2 months)

Designed and developed custom Python and JavaScript applications, effectively optimizing efficiency and productivity.

Implemented automated testing processes, ensuring reliable and efficient software delivery.

Built full-stack applications using the MERN (MongoDB, Express, React, Node) stack, delivering robust and scalable solutions.

Integrated Terraform into the CI/CD pipeline, enabling seamless infrastructure provisioning and deployment.

Leveraged various AWS services, including VPC, subnets, internet gateways, EC2, Route53, Elasticache, S3, CloudFront, load balancer, and autoscaling group, to create resilient and scalable cloud-based solutions.

🎢 Firmware Validation Engineer

Micron Technology

Jun 2021 - Jul 2022 (1 year 2 months)

Contributed to the development of innovative high-performance controller firmware for memory systems, which brought about substantial enhancements in power efficiency, reduced latency, and simplified system-on-a-chip (SoC) complexity. These improvements greatly improved the overall performance and efficiency of memory systems, providing notable benefits such as optimized power consumption, faster data processing, and streamlined system architecture.

Collaborated with multi-disciplinary teams to overcome product development challenges, leading to enhanced performance in target sectors and improved competitiveness in the market.

Successfully evaluated, built, and debugged firmware for new memory controllers and SSDs, contributing to the successful launch of cutting-edge products.

Mentored and guided junior engineers and technicians, fostering their professional growth and ensuring knowledge transfer within the team.

Demonstrated exceptional ability to work independently and deliver high-quality results within tight deadlines and under high-pressure, multi-priority situations.

Conducted comprehensive failure trials, filed detailed bug reports, and actively participated in issue resolution, contributing to the continuous improvement of product reliability and performance.
Configured a robust Jenkins pipeline, streamlining the firmware development and testing process for increased efficiency and automation.
Leveraged Python programming skills to develop firmware and automate testing processes, accelerating development cycles and enhancing overall productivity.
Applied extensive knowledge of storage interfaces (PCIe/NVMe, SATA, SAS) and non-volatile storage technologies (NAND flash) in the design and optimization of firmware for cutting-edge SSD storage systems, ensuring optimal performance and compatibility.

Customer Engineer II
NCR Corporation
Dec 2020 - Jun 2021 (7 months)
Led a comprehensive maintenance program, overseeing installations, network management. This resulted in improved system reliability and minimized downtime.
Promptly addressed critical incidents with client payment processing infrastructure and computers, ensuring uninterrupted transaction processing and the smooth operation of the business. By quickly troubleshooting and fixing the problems, I effectively minimized downtime and maintained business continuity.
Effectively resolved complex technical challenges related to point-of-sale software, leveraging a diverse scope of domain and discipline knowledge. By applying my expertise and troubleshooting skills, I identified and addressed software issues, ensuring smooth and efficient operations at the point of sale. This contributed to improved customer experiences and streamlined transaction processes.
Successfully implemented robust security measures to protect sensitive customer data, maintaining compliance with PCI Validation standards and ensuring customer privacy.
Consistently exceeded Service Level Agreements (SLAs) by promptly resolving incidents, conducting thorough problem determination, and performing root cause analysis, resulting in high service quality and customer satisfaction.

Network Technician
Kenyatta Computer Services
Jan 2019 - Dec 2020 (2 years)
Successfully configured and deployed essential network hardware components, including commercial UPS, enterprise-class routers, switches, firewalls, and access points. This ensured robust and secure network connectivity, meeting the organization's operational needs.
Executed system overhauls, such as modular swaps and unit replacements. These actions significantly improved network uptime and reduced potential disruptions, resulting in enhanced productivity and user satisfaction.
Developed expertise in various networking technologies, such as TCP/IP, Routing, VLAN, DHCP, WINS, and DNS. This deep understanding allowed me to effectively configure network software and optimize network functionality.
Proactively identified and addressed network bottlenecks to ensure long-term network efficiency. By implementing appropriate solutions and adjustments, I maximized network performance, enabling seamless communication and data transfer.
Demonstrated proficiency in troubleshooting and resolving configuration, network, and software issues. Through systematic problem-solving and in-depth analysis, I quickly resolved issues, minimizing downtime and ensuring uninterrupted network operations.

Utilized wireless analysis tools like Ekahau Survey Pro to perform comprehensive wireless network assessments. By leveraging these tools, I optimized wireless coverage, signal strength, and overall network performance.

Laboratory Technician

The Evergreen State College

Sep 2016 - Jun 2018 (1 year 10 months)

Led engaging workshops showcasing advanced Photoshop techniques and operations for technical editing, empowering students to master essential skills and unlock their creative potential.

Provided guidance and support to students in conceptualizing and refining their website ideas, crafting prototypes, designing wireframes, selecting appropriate fonts, and creating captivating color palettes.

Demonstrated expertise in utilizing the Adobe Suite, including Photoshop, InDesign, Illustrator, and XD, to execute precise editing functions on diverse media such as photography, graphics, and digital art, resulting in visually stunning and impactful deliverables.

Leveraged in-depth knowledge of chemistry to skillfully mix and handle chemicals required for film processing and photo development, ensuring optimal results and maintaining the highest standards of quality.

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.

Seattle Central College

2013 - 2015

Licenses & Certifications

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

Skills

MongoDB • Redis • JavaScript • HTML • Python (Programming Language) • React.js • SQL • Git • Linux • Node.js