

Maxwell Rohrer

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Major: Computer Science | Minor: Cybersecurity Engineering | Iowa State University Graduate

Technical Skills

- Proficient with Javascript, C, C++, Java, Python, Go, CSS, Shell Script, HTML, SQL, Linux CLI, Docker, AWS, Git, etc.
 - Knowledgeable of various data structures (Bloom Filters, BSTs, Hash Tables, Heaps, Doubly-Linked Lists, etc).
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Work Experience and Projects



John Deere | Software and Data Engineer | Platform Enablement and Financial Operations | Ames, Iowa

May 2023 – Present

- Developed a network facing web application that monitors product health and alerts over 10,000 users of outages.
- Designed the application using React and Node.js, leveraging AWS cloud for secure and scalable data storage.
- Engineered silver/gold level Databricks tables to enhance data quality and transform raw data into usable formats.
- Aligned \$30M in AWS, Databricks, and Palantir to their applications, identifying and preventing overspend.
- Implemented AWS cloud services to remotely deploy code, collect logs, house data, configure network, etc.
- Worked in an Agile Scrum environment, contributing to sprint planning, stand-ups, and iterative development.
- Reviewed production code to ensure quality, resolve issues, and maintain best practices.
- Mentored new student team members, offering technical guidance, code reviews, and problem-solving support.



Iowa State University | Technical Assistant | Iowa State Technical Solution Center | Ames, Iowa

January 2023 – May 2023

- Found efficient ways to solve hundreds of various IT problems at Iowa State.
- Took over 1000 phone calls from customers and worked with databases to quickly scope and resolve issues.
- Resolved hundreds of IT support tickets from online users with timely and effective responses.
- Fine-tuned troubleshooting and debugging skills to work effectively in a fast-paced environment.
- Created documentation for IT support processes to improve troubleshooting and user assistance.



Lockheed Martin | HPC Monitoring Software | Iowa State University Capstone Project

January 2025 - May 2025

- Built a scalable telemetry system for HPC clusters, enabling real-time node monitoring with low resource usage.
- Engineered lightweight Go-based agents to scrape real-time system metrics from sensors and transmit via TCP.
- Developed a centralized SQLite database and API interface for real-time telemetry visualization using Go-Echarts.



mjbucks.com | Personal Portfolio Website | Powered by AWS

January 2025

- Built a modern personal portfolio website that showcases skills and experiences as a software engineer.
 - Created the site with the React.js frontend framework, displaying modern styling techniques.
 - Hosted the project in an S3 general purpose bucket, configured to statically host the content it holds.
 - Distributed the content of the site to AWS Cloudfront for fast response times on a global scale.
 - Registered the domain in AWS Route 53, routing all mjbucks.com traffic through CloudFront.
 - Configured SSL certificates through AWS ACM for authentication, enabling client trust in the site.
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Education

Iowa State University | Bachelor's Degree | Graduated Magna Cum Laude

- Cumulative 3.72 GPA | ISU Dean's List fall of 2021/2022/2023, spring of 2022/2023/2024/2025
- Major: Computer Science | Minor: Cybersecurity Engineering | Expected graduation date: May 2025
- Course work: Data Structures, Large Dataset Algorithms, Cryptography, Computer Architecture, Networking

Professional Education

- Introduction to AWS Cloud Certification - May 2023
- Scrum Team Member Training Certification - May 2023
- Databricks Introduction to Data Engineering - June 2023
- Expert rating in NoRegret Skills for GitHub Collaboration, Python Data Essentials, and AWS Architecting