Maxwell Rohrer

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Major: Computer Science | Minor: Cybersecurity Engineering | Senior at Iowa State University

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Education

Iowa State University | Bachelor's Degree
- Cumulative 3.78 GPA | ISU Dean's List fall of 2021/2022/2023, spring of 2022/2023/2024
- Major: Computer Science | Minor: Cybersecurity Engineering | Expected graduation date: May 2025
- Course work: Data Structures, Large Dataset Algorithms, Cryptography, Computer Architecture, User Interfaces
- Undergraduate Research and lab experience at Iowa State University

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

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Technical Experience

- Proficient with Javascript, C, C++, HTML, CSS, Shell Script, Java, Python, SQL, Linux Command Line, etc.
- Knowledgeable of various data structures (Bloom Filters, BSTs, Hash Tables, Heaps, Doubly-Linked Lists, etc).
- Very practiced debugging and troubleshooting skills, experience with writing unit and integration tests.
- Advanced understanding of developing applications efficiently and of high quality.
- Configured a Raspberry Pi for self-driven projects such as web hosting, ad-blocking, and penetration testing.

Work Experience

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.
- Built 5+ micro-frontend components for Deere's largest data platform, enhancing usability and scalability.
- Engineered 30+ Databricks tables to enhance data quality and transform raw data into usable formats.
- Created dashboards that saved $4.9M in AWS costs by identifying and preventing overspend.
- Implemented AWS cloud services to remotely deploy code, collect logs, house data, configure network, etc.
- Worked in a Scrum environment, contributing to sprint planning, stand-ups, and iterative development.
- Reviewed production code to ensure quality, resolve issues, and maintain best practices.

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.
- Became proficient in various software such as Service Now, aware of key usage and common issues.
- 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.

Leadership

- *President of Larch Caine house:* Voted by 80 close peers to lead event management within a building of over 600 students and recognized by the Iowa State Student Organization Center.
- *Iowa State First-Year Honors Program Leader:* Selected by the Iowa State Honors program to build 30 lesson plans and lead a classroom of 15 Honor's students for the fall 2022 semester.
- Experienced in working effectively and professionally within teams as well as taking on leadership roles in academic projects and group work.