

Jonah Cole Biedermann

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Education

Oregon State University

Graduated June 2023

Bachelor of Science in Computer Science

GPA: 3.83/4.00

Coursework: Web Development, Mobile Development, Cyber Security, Artificial Intelligence, Machine Learning

Experience

Software Engineering Intern, Daimler Trucks, Portland, OR

Jun 2023 – Dec 2023

- Achieved an 80% reduction in support tickets by designing and developing C# and .NET applications integrated with SQL databases to optimize vehicle Service Repair Times and Repair Orders management.
- Reduced data loss risks by 95% by implementing a full stack application for automated database backups.

Software Engineering Intern, Mosaic.Tech, San Diego, CA

Mar 2022 – Sep 2022

- Achieved a 4x reduction in job cancellation times by managing asynchronous functions in C#.
- Integrated Snowflake Data Warehouse with OAuth using Angular, handling over 50TB of data without performance degradation.
- Achieved 85% code coverage through unit and integration testing using the Cypress framework.

Data Structures / Algorithms Teaching Assistant, Oregon State University, Corvallis, OR

Jun 2021 - Dec 2021

- Assisted 300+ students in understanding and applying data structure and algorithm concepts.
- Received a 100% approval rating from students while tutoring in advanced data structures and algorithms.
- Designed challenging assignments that led to a 35% improvement in student coding proficiency.

Computer Science Lead, Openly Published Environmental Sensing Lab, Corvallis, OR

Jan 2021- Jun 2021

- Led a cross-functional team of 8 engineers and developers to ensure efficient collaboration and on-time project delivery.
- Contributed to the open-source Arduino library "Loom" for environmental sensing, improving functionality and accessibility for the community.
- Achieved a 3x improvement in data comprehension and analysis for users by developing an audio-visualization system for MongoDB data.

Projects

Personal Portfolio Site

Apr 2020 – Present

- Created and incorporated 15 original 3D models and integrated 10 open-source 3D models, contributing to a unique and immersive user experience.
- Achieved a 2x increase in user engagement by integrating 3D design elements using three.js and React Three Fiber, enhancing website visual appeal and interactivity.

Anomaly Detection for Construction Use Case

Sep 2022 – Jun 2023

- Achieved a 95% accuracy rate in anomaly detection using state-of-the-art deep learning techniques, YOLOv5 and masked autoencoders.
- Increased field worker efficiency by 40% by integrating the AI-Annotation Tool into an Android application for real-time anomaly recognition.

Skills

Languages: JavaScript, Ruby, TypeScript, SQL, C++, C, Python, Java, PHP, HTML

Frameworks: Node.js, React.js, .NET, MongoDB, Express.js, Vue, Angular, jQuery