

Jonah Cole Biedermann

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EDUCATION

Oregon State University Corvallis, OR *Bachelor of Science in Computer Science*

June 2024 • GPA: 3.9 out of 4.00

• Dean's List, Honor Roll

RESEARCH/WORK EXPERIENCE

Computer Science Staff Project Lead • *Under Professor Chet Udell in Open-Sensing Lab • Corvallis, OR February 2021 - June 2021*

- Set up a web server using React, NodeJS, and Docker in order to add MQTT and MongoDB functionality to Loom.
- Maintained a MongoDB Database to collect and store data from Arduino sensors using C/C++
- I managed a team of volunteer engineers and used MaxMSP and NodeJS to make an Audio-visualization of MongoDB data.

Data Structures Teaching Assistant • *Under Professor Randy Scovil • Corvallis, OR June 2021 - August 2021*

- Held weekly office hours assisting students in debugging programs and answering course-related questions.
- Mastered the CS261 (Data Structures) material set in order to help students to the fullest.
- Graded 200+ students on programming assignments and gave feedback to ensure their success with future programming.
- Directed after school weekly study sessions to help students understand and learn difficult data structures and algorithms.

Lifeguard • *Mittleman Jewish Community Center • Hillsboro, OR June 2016 - August 2019*

- Explained and enforced facility regulations, policies, and procedures to patrons
- Rescued swimmers in need of assistance
- Demonstrate proper rescue techniques, including but not limited to, swimming rescues, First Aid, and CPR
- Kept accurate records of incident reports, maintenance, and chemical testing

ACTIVITIES

Alpha Epsilon Pi Fraternity *September 2019 - Current* • Successfully grew membership by over 50% • Regularly volunteered at our local Hillel • Regularly served in food kitchens.

- Organized annual AE Puppies philanthropy which resulted in over \$3000 going to the Corvallis Humane Society and many shelter dogs getting adopted.
- Positions Held: Vice President (current), Philanthropy Chair, Sentinel, Scribe, Social Media Chair

STEMbassadors *December 2020 – June 2021* • Built, distributed, and taught once restricted technologies to non-engineering students at OSU such as CNC Routers, Laser Cutters, and 3D Printers. Specifically with the focus of facilitating their use within the arts.

SKILLS

- C++ / C, Python, C#, R, HTML/CSS/Javascript (NodeJS, MongoDB, SQL)
- Web Development and Design, Algorithm Analysis, Game Development, Vector Calculus, Linear Algebra, Neural Network Fundamentals, Adobe Creative Cloud (Illustrator, Lightroom, Photoshop, etc.)