# Marina W. Rosenwald

marinarosenwald@gmail.com • linkedin.com/in/marina-rosenwald • https://marinarosenwald.com

## Summary

| | | |
|---|---|---|
| Artificial Intelligence | Differential Equations | Computer Vision |
| Machine Learning | Calculus & Statistics | Java, Python, C, C++, JavaScript |
| Operating Systems | Physics | SQL, Swift, Rust, CSS |
| Data Structures | Software Engineering | Assembly x86, Binary |
| Algorithms | Application Development | Linux, Windows, MacOS |
| Databases | Website Development | Research |
| Linear Algebra | Cyber Security | Team Lead, Project Management |

## Education

**Master of Science in Computer Science and Software Engineering,** University of Washington, Bothell          **Cur.**
**Bachelor of Science, Computer Science**, California Polytechnic State University, SLO          **March 2023**
          Senior Thesis, *Object Detection and Size Estimation Using LiDAR in Application Development*
**General Diploma**, Sammamish High School, Bellevue, WA          **June 2020**

## Experience

**Software Engineer**  Range Generation Next, Vandenberg Space Force Base, CA          **December 2022 – April 2023**
- Conducted cyber security scans and implemented relevant Security Technical Implementation Guides (STIGs) to ensure system security.
- Configured Cisco Switches to establish appropriate network connections, optimizing network performance.
- Installed and debugged operating systems on specialized computers, ensuring smooth operation and compatibility.
- Configured and operated Virtual Machines, effectively managing virtualized environments.
- Established and maintained VMWare servers, ensuring reliable and efficient server operations.
- Collaborated closely with cross-functional teams including Software Engineering, Cyber Security, and Hardware Engineering departments on large-scale projects.
- Successfully acquired interim security clearance, demonstrating trustworthiness and adherence to security protocols.

**Lead Student Research Assistant**  California Polytechnic State University, SLO, CA          **Fall 2021 – March 2023**
- Led a team of over 30 cross-disciplinary student researchers as the student team lead for a machine learning project that utilized drones to collect data on marine and agricultural life.
- Participated in budget meetings, conducted team meetings, and coordinated projects and materials to ensure smooth project execution.
- Designed and developed an iOS and Android application using Kivy, which successfully connected YOLOv5 to the drone's live video feed.
- Implemented a robust user interface, camera input functionality, and data storage capabilities within the application.
- Developed multiple deep learning models to accurately identify animals in the collected data.
- Designed and developed a comprehensive team website with a file system backend using JavaScript, React, and MongoDB.
- Acquired necessary permits and licenses as the trained Drone Pilot, ensuring compliance with regulations.
- Represented the project in marketing media and effectively performed public relations tasks, including news interviews, community outreach events, and maintaining communication with sponsors.

**Instructional Student Assistant**  California Polytechnic State University, SLO          **September 2022 – March 2023**
- Provided valuable support as an Instructional Student Assistant for undergraduate and postgraduate level courses in Artificial Intelligence and User-Centered Interface Design and Development.
- Created comprehensive lab materials to enhance students' understanding and practical application of course concepts.
- Assessed and graded student assignments, ensuring fairness and accuracy in evaluation.

- Guided and assisted students throughout course-long programming projects, offering technical expertise and guidance to help them achieve their project goals.
- Collaborated closely with students during lab sessions, addressing questions, providing explanations, and offering hands-on support.
- Maintained a positive and engaging learning environment, encouraging active student participation and fostering a strong understanding of the subject matter.

**Intern**  DiamondStream Partners, Seattle, WA (remote)                                    **Summer 2020 & 2021**
- Conducted in-depth research on specific technologies relevant to aeronautical investment companies, providing valuable insights to the investing team regarding potential opportunities.
- Effectively communicated technical concepts to the investing team, facilitating their understanding of the technology landscape and its implications for investment decisions.
- Designed and implemented databases for investment tracking and customer information systems, ensuring efficient data management and retrieval.
- Leveraged strong problem-solving skills to address challenges and optimize the functionality of the databases.
- Collaborated with team members to gather requirements and implement database solutions that met the needs of the investment and customer information systems.

**Intern**  Backblaze, Inc., San Mateo, CA                                                              **Summer 2019**
- Executed quality assurance tasks for a cloud backup company, including thorough testing and accurately documenting defects in the company's bug-tracking system.
- Developed an automated testing process, effectively utilizing various Backblaze B2 command line tools to streamline testing procedures and enhance efficiency.
- Took the initiative to establish an online presence for the company on Apple Maps and TikTok, expanding brand visibility and reaching a broader audience.
- Collaborated with team members to ensure the successful implementation of the online presence strategy, leveraging creative approaches to engage users on these platforms.

## Interests

Snowboarding, Travel, Triathlons, Formula 1