

Salvatore Bonsma

salvobonsma.com/ | linkedin.com/in/salvobonsma

EDUCATION

University of Washington

B.S. in Computer Science

Seattle, WA

Expected June 2028

Roosevelt High School

Running Start / College Dual Credit, GPA: 3.85/4.0

Seattle, WA

Sept. 2022 – June 2026

TECHNICAL SKILLS

Languages: Java, TypeScript/JavaScript, C, C++, Rust

Frameworks & Tools: Next.js, WebSockets, Git, Onshape (CAD)

Domains: Full Stack Web Development, Robotics & Control Systems, Computer Vision, Autonomous & Real Time Systems, UI/UX Design

Coursework: Computer Programming II, Calculus II, Digital Electronics II, Physics, Principles of Engineering, Business Statistics

EXPERIENCE

Software Lead

2022 – Present

FIRST Robotics Competition, Team 359 ([Hawaiian Kids](#))

Waialua, HI (Remote)

- Led a software sub-team of **6+** people through a full architecture rebuild spanning computer vision (SolvePnP), state machines, simulation, replay tooling, and much more
- Created a **five camera vision pipeline** fused with wheel encoder data for **inch level** accurate robot localization
- Created a tuning dashboard, letting the team adjust robot behavior mid match with zero code redeploy

Founder & Developer

Aug. 2024 – Present

Pulse ([pulsefrc.app](#))

Remote

- Founded and built Pulse, a real time web platform for the competitive robotics community, using Next.js and WebSockets
- Reached **4,000+** users in the **first week of launch**

Discovery Corps Intern

Jun. 2023 – Aug. 2024

Pacific Science Center

Seattle, WA

- Selected for a paid, **competitive internship program** at one of the Pacific Northwest's largest science museums
- Designed and delivered interactive STEM exhibits and learning activities to museum visitors of all ages

VOLUNTEER EXPERIENCE

Co-Founder & Technical Officer

Jun. 2023 – Present

InnovatED ([getinnovated.org](#))

Seattle, WA

- Co-founded a 501(c)(3) nonprofit focused on STEM educational equity for under resourced students
- Built the systems that distribute **free custom PCB electronics kits** to low income households

Student Mentor

2024 – Present

FIRST Robotics Competition, Team 10079

Seattle, WA

- Mentored the programming sub-team of **8+** students on a rookie FRC team, teaching software fundamentals, robot code architecture, and strategy

HONORS & AWARDS

FIRST Robotics Competition | Team 359 ([Hawaiian Kids](#))

- 3x** Regional Championship wins; FIRST Impact Award Finalist at the FIRST World Championship; **69-11 season record**
- 2x** Innovation in Control Award, Autonomous Award, Industrial Design Award, Excellence in Engineering Award, and Rising All Star Award
- FIRST Dean's List District Semifinalist (**top 2%** of students)

North Seattle College | Academic Honors

- 2x** President's List (**top 15%** of students)
- 2x** Dean's List (**top 30%** of students)