

Alexander Bloomer

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EDUCATION

Redondo Union High School, Redondo Beach, CA

High School Diploma

GPA: 4.5

Relevant Coursework: AP Computer Science A, AP Computer Science Principles

El Camino College, Torrance, CA

No Degree

GPA: 3.75

Relevant Coursework: Computer Science 1: Problem Solving and Program Design using C++, Computer Science 2: Introduction to data structures

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C#, JavaScript, HTML, CSS

Software Tools: Unity, Microsoft Excel, Git, GitHub, VScode

EXPERIENCE

The Coder School

Code Coach, March 2023 – Present

Teach students from 6 to 18 to code in various languages and frameworks including Python, JavaScript, C#, Java, C++, CSS, HTML, Scratch, and Unity. Teach everything from block coding to game design to web design. Engage students with interesting programming projects. Foster creativity and problem-solving skills. Led summer and winter Camps of up to 15 students on topics like scratch, robotics, animation, and many more.

Beach Cities Robotics, First Robotics Competition

Lead Technician, January 2022 - August 2022

Programming Student, August 2020 – June 2024

Co-Driver, August 2022- June 2024

Collaborate with team members to design, build, and program robots. Apply programming concepts to control robots using Java. Assist with setup and troubleshooting of the robot as technician. Program web app for scouting other teams using React. Won scouting award at regional competition. Cooperate with another driver to operate the robot in regional competition. Finalist at regional competition. Won Excellence in Engineering Award and Entrepreneurship Award. Won regional competition. Won division at World championships. Finalist at World Championships.

Boeing

Software Engineering Intern, June 2023– August 2023

Collaborated with Boeing software engineers to create a robust pipeline for ensuring safety and security in code. Overcame many challenges and difficult issues with pipeline; Presented

pipeline to employees and chief engineers. Collaborated with three other interns to present innovative AI strategy to chief engineers and won an AI innovation award.

CyberPatriot

Team Member, August 2021 – present

Collaborated with a 5-person team to protect computers from security risks and other dangers; Wrote scripts to expedite the process and find issues more efficiently; Ranked top 20% in the nation and first in school.

HONORS

Ivy Chain Award for Top 50 Juniors by GPA (2023)

AP Scholar With Distinction (2023)

California Scholarship Federation (2020-2023)

Robotics Programming Student of the Year (2023)

Robotics Rookie of the Year (2021)