

Nolan Pierce

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EDUCATION

Stanford University

Bachelor of Science in Computer Science

GPA: 3.661

Coursework: Programming Methodology, Computer Organization and Systems, Information Science and Engineering

Newport High School

US Presidential Scholar CTE semi-finalist

Valedictorian

Stanford, CA

09/2023 - 06/2027

Newport, WA

09/2019 - 06/2023

PERSONAL PROJECTS

- **Huffman Compressor:** Implemented a file compression algorithm using C++ with priority queues and dynamic memory management; recreated in Python utilizing NumPy arrays to optimize array operations.
- **Solar-Powered Charger:** Designed and soldered a circuit integrating a lithium battery, voltage converter, and current diode with a solar panel, creating an eco-friendly solution for charging portable devices.
- **Interactive LED Display:** Developed a reprogrammable LED display using Arduino, showcasing advanced circuitry knowledge and microcontroller programming.
- **"Useless Box":** Built a mechanical switch using Arduino and motors that toggles itself off when turned on, demonstrating principles of automation and embedded systems.
- **Electrocardiogram (EKG):** Engineered an EKG device using a low-pass filter and amplifier to detect and visualize heart rate signals.

TECHNOLOGY WORK EXPERIENCE

Washington Technology Student Association

Board Member: Alumni Representative

Remote

03/2023 - present

- Participate in board meetings advocating for alumni and reporting on recent activities
- Manage alumni pool of over 60 people, recruit members for conference judging, mentoring, assistance, etc.

Newport School District

IT Support Specialist

Newport, WA

06/2022 - 08/2022

- Assisted Newport School District's IT department in preparation for the coming school year.
- Assisted in enrollment and deployment of over 100 school-provided Chromebooks. Imaged over 100 staff computers and interactive displays. Replaced and installed any broken devices across the district.

LEADERSHIP and EXTRACURRICULARS

Stanford Men's Rugby

Player

Stanford, CA

08/2023 - present

- 1 of 5 players sponsored to attend the Crusaders International Academy in New Zealand. (06/10/2024 - 07/29/2024)
- Competed in National 7's Tournament

10/2024 - present

Washington Technology Student Association (WTSA)

Elected State Officer

Washington

03/2021 - 03/2023

- Planned and managed in-person and virtual events for WTSA members. Advocated for WTSA and its members in front of state legislators.
- Throughout terms, increased active membership to over 10,000 students
- Performed numerous speeches to audiences over 2,000 people

SKILLS

- Proficient in Python and C++
- Familiar with C and Unix