

# Joe Barteluce

+1 (360) 560 1553 - [Portfolio](#) - [joe.barteluce@gmail.com](mailto:joe.barteluce@gmail.com) - [linkedin.com/in/jbarteluce](https://www.linkedin.com/in/jbarteluce) - [github.com/joebarteluce](https://github.com/joebarteluce)

## EDUCATION

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### Washington State University Vancouver

BS Computer Science

Vancouver, WA, USA

Expected August 2023 - May 2025

### Lower Columbia College

AS Computer Science

Longview, WA, USA

September 2020 - June 2023

- Outstanding Student Award, Computer Science
- Outstanding Student Award, Engineering
- President's List

## TECHNICAL SKILLS

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### Programming Languages:

Proficient: C, C++, Java

Familiar: Javascript, SQL, Typescript, Python

Beginner: Haskell

**Frameworks and Tools:** Amazon AWS, Angular, Git,  $\LaTeX$ , Linux, MySQL, NodeJS

## RELEVANT EXPERIENCE

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### MESA Mentor

SW Washington MESA, WA, USA

February 2024 - Current

- Volunteering as a Mentor for middle and high school students.
- Helping students design and implement projects using an Arduino, electrical components, and C++.
- Gaining hands-on experience troubleshooting the work of others while driving engagement in Engineering and Science

### Peer Tutor

Lower Columbia College, WA, USA

September 2022 - July 2023

- Tutored peers in Computer Science.
- Covered topics including algorithms, data structures, debugging, object-oriented programming, project design.
- Expanded my knowledge in CS and learned how to communicate ideas to a diverse audience.

## PROJECTS

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- **Grant Proposal**, researched funding opportunities for a Collective and delivered a written proposal targeting relevant grants.
- **Linux Keylogger**, malware which captures keyboard events and delivers a log file over a network. Exploits a security vulnerability in the Linux kernel and uses shell scripting to grab device information.
- **FTP Client/Server**, an FTP client and server in C for internet file transfers in a Unix-like environment. Application can send and receive files over networks and includes robust error-catching.
- **br3ezy**, a full stack web application for livestreaming video. I am responsible for the front end which utilizes an Angular framework.
- **Ultrasonic Distance Tool**, measures distance to an object using an ultrasonic sensor and a PIC24 microcontroller, with measurement displayed on LCD. Wrote custom software and implemented the design on a breadboard.