

Education

Reed College | **Bachelor of Arts, Computer Science** | Portland, OR | May 2026

Relevant coursework: CSCI 389 PL Design/Implementation, CSCI 382 Algorithms & Data Structures

Bellevue Big Picture School | Bellevue, WA | June 2022 - Project-based high school with real-world internship program

Experience

Software Engineer I | [Hack Club](#) | December 2022-January 2023, June 2023-August 2023

Developed open-source hardware and software projects to engage young people with making and hacking

- Collaborated with researchers at MIT on [Modular Things](#), a framework for plug-and-play virtualized hardware (**coauthor** on [paper](#), accepted to **ACM CHI '23** conference)
- Designed an [inexpensive, hackable drawing machine](#) in **Onshape CAD** + wrote supporting documentation to introduce students to digital fabrication
- Coded a [fully browser-based IDE](#) for controlling Modular Things using **Web Serial API, Next.js, React, TypeScript**

Web Developer | [Gigantic](#) | Seattle, WA | November 2021-August 2022

Developed internal tools, did client work at agency for small-medium sized businesses

- Used **Next.js, React** to build [a tool to automate](#) image processing workflows for client sites. Increased team efficiency and reduced costs/dependence on third-party service
- Implemented designs in **Webflow** with **modern CSS, JavaScript** to deliver high-quality web experiences to clients
- Investigated and developed new revenue sources to improve long-term sustainability
- Developed **custom plugins** and **webapps** to fulfill client requirements
- Leveraged knowledge of **HTML/CSS/JS, React**. Quickly learned **Webflow, WordPress, PHP**

Teaching Assistant | [CodeDay Labs](#) | July-August 2021

- Mentored/advised college and high school students in software development
- Guided participants through troubleshooting and debugging
- Leveraged knowledge in a **vast array of technologies** and general SWE skills

Engineering Intern | [Kernel Labs](#) | Seattle, WA | September 2019-June 2021

Assisted with hardware/software R&D on robotics project & open source COVID ventilator

- Developed core product with **Python, machine learning (Keras, Numpy, etc), computer vision**
- Prototyped **PCBs w/ KiCad & electrical circuits**. Developed **embedded firmware** for microcontrollers in **C++**
- **Researched**, implemented alternative components and systems, improving cost-effectiveness and manufacturability
- Wrote reproducible support **documentation** to improve manufacturability
- Leveraged knowledge in **prototyping, embedded firmware, hardware design, ML, Python**

Founder | [KeyPCB](#) | Seattle, WA | April 2018-2021

Offered custom keyboard-related services, sold keyboard kits

- Realized customers' ideas by designing keyboard **circuit boards** on commission
- **Manufactured and sold** innovative custom keyboard kits at affordable prices
- Leveraged knowledge in **prototyping, KiCad, PCBmode, electrical design**

Programming Intern | [Bellevue School District](#) | Bellevue, WA | November 2018-June 2019

Designed/implemented change management web app for school district IT to debug systems

- **Prototyped** and **iterated** on app based on feedback from department
- Enabled efficient resolution of issues through a more robust change control system
- Leveraged knowledge in **HTML/CSS/JS**; quickly learned **C#, ASP.NET, SQL**

[see personal projects on [portfolio website](#)]

Skills

HTML/CSS, JavaScript, TypeScript, Node.js, React, GraphQL, web platform, OCaml, C, C++, embedded firmware, hardware design, prototyping, Onshape, CAD, Figma, SQL, Python, C#, PHP, Go, Git, Linux