

# Alex Colwell

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## Education

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**Saugus High [2016-2021]:** AP Environmental Science, AP World History, AP Literature and Composition, AP Chemistry, AP Physics 1, AP Language and Composition, AP Statistics, AP Biology, AP Computer Science A, AP Psychology

**North Shore Community College [2019-2020]:** Calculus 1, Calculus 2

**Bunker Hill Community College [2020-2020]:** Calculus 3, Differential Equations

## Skills

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### Software

**Programming Languages:** HTML, CSS, Javascript (Node), C (Embedded), C++, Bash, Python, Java, Ruby (RoR), Markdown,  $\text{\LaTeX}$

**Web and Mobile Development:** Creating websites and mobile applications using the ReactJS framework, creating APIs, simple backend applications using various combinations of Python, NodeJS, MySQL, Firebase, and MongoDB. Experience also includes Studies in User Experience and Usability.

**Operating Systems:** Installing and admistering MacOS, Windows, and Linux (Arch, Xubuntu, Debian)

### Hardware

**Internet Of Things and Development Boards:** Developing various devices using development boards (Raspberry Pi, Arduino, NXP FRDM, Particle) or standalone 8-bit microprocessors (AVR or NXP MC09). Projects include: [Twitter Controlled Laser Pointer](#), [logic analyzer](#), [Bit-Banged Serial Port](#), [Raspberry Pi Zero based facial recognition device](#).

**Circuit Board Development:** Using Kicad to design PCBs. First project: [logic analyzer](#), printed at [OSH Park](#).

**Libraries:** Developing libraries for NXP mircroprocessors, some of which were: [I2C Library for talking to Wii Nunchuks](#), [MIDI Library](#), [Library for using 7 Segment Displays](#), [A library for using LCD displays](#)

### Leadership

**MIT Leadership Training Institute:** Graduate of the MIT Leadership Training Institute, where I developed a prototype for a Language Learning App aimed at Students learning English for school, for which I was selected to return and present for the next year's incoming class.

**Saugus High School GSA:** Vice President of the Saugus High School Gender Sexuality Alliance.

## Interests(Non Tech)

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### Music

**Instruments:** Keyboard, bass, guitar, trumpet, drums, ukulele.

**Recording:** Experience using various Digital Audio Workstations, most notably Studio One, for recording and mixing music.

**Teaching:** Teaching guitar, how to read sheet music, and music theory.