

# Luke Erling Fredrickson

lfredric@uvm.edu | (206) 743-6478 | Burlington, VT 05405  
www.lukefredrickson.me | github.com/lukefredrickson

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## EDUCATION

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**University of Vermont** // Burlington, VT

*Degree Expected May 2022*

- Bachelor of Science, Computer Science // UVM Honors College
- Mathematics Minor & Statistics Minor

GPA: 3.96

**Lakeside School** // Seattle, WA

*June 2018*

## TECHNICAL SKILLS

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### Programming Languages

*Proficient:* Java, JavaScript, HTML, CSS // *Familiar:* PHP, Python, SQL, R, C++

### Development Tools

*Libraries & Frameworks:* Express, Node.js, React & Redux, SCSS, JavaFX // *Tools:* Git, Agile & Scrum

## PROJECTS

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**Personal Website:** [lukefredrickson.me](http://lukefredrickson.me) (for additional information)

### Raspberry Pi Spotify LED Visualizer

- Coded a Raspberry Pi application which uses Spotify API data to visualize music on an LED strip in real time.
- Utilized Node.js, Express, and Socket.io to manage user authentication, data flow, and API queries.

### The Rime of the Ancient Mariner Website

- Programmed a website to improve reading comprehension of the poem *The Rime of the Ancient Mariner* by employing narration, music, and color theme changes based on the poem's mood.
- Used JavaScript for synching themes with audio keyframes, and CSS with SCSS pre-processing for theming.

### 3D Game in Unreal Engine: Project Albatross

- Collaborated with two other students over five months to create a 3D open world game in Unreal Engine.
- Utilized Git for file management, and Agile & Scrum as a development methodology.

## WORK EXPERIENCE

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**Honors College Peer Mentor** // University of Vermont // Burlington, VT

*Sept 2019 — Present*

- Mentor a group of 18 first-year computing students in the UVM Honors College.
- Plan and organize residential life events for students in the UVM Honors College.

**Junior Mechanic** // Gregg's Greenlake Cycle // Seattle, WA

*June 2019 — Aug 2019*

- Assembled new bicycles, ensuring proper safety and performance standards were met.

**Freelance Construction and House Painting** // Seattle, WA

*Summer 2017 & 2018*

- Developed construction and painting skills, critical safety skills, and detail-oriented work ethic.

## LEADERSHIP & COMMUNITY INVOLVEMENT

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**Treasurer, UVM Bike Co-op** // University of Vermont

*Jan 2019 — Present*

- Volunteer 5 hrs/week fixing bikes for UVM students and faculty.
- Oversee club funds and facilitate purchases for shop supplies.

**UVM Cycling Team** // University of Vermont

*Sept 2018 — Present*

**Washington Trails Association (WTA)** // Seattle, WA

*Sept 2014 — June 2018*

- Volunteered 150+ hours maintaining hiking trails and presenting about WTA to groups of 30+ students.