

# Caleb Seely

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## Education

### Computer Science Bachelor of Science | Mathematics Minor

Moscow, ID

University of Idaho

August 2017 - May 2021

- Big Sky Academic Honors, College of Engineering Deans List
- Calculus 1 & 2, Discrete Math, Theory of Computation, Linear Algebra, Statistics, History of Mathematics.

## Work Experience

### CSDev

Portland, OR

Web Development | React, CommerceJS

Sept 2022 - Dec 2022

- Spearheaded the development of an e-commerce site for a client, capable of efficiently managing thousands of users.
- Optimized React elements resulting in a 90% reduction in API calls and improved page load times.
- Successfully delivered the project, meeting initial requirements for the client 6 weeks ahead of schedule.

## Projects

### CalebSeely.com | JavaScript, Bootstrap 4, HTML, CSS

Portland, OR

Personal

Oct 2020 - Present

- Created a personal website using HTML, CSS, and JavaScript to showcase projects, implement ideas, and learn new skills.
- Implemented a JavaScript feature to rotate through unlimited projects, eliminating an original design limitation
- Fabricated new features for fun and practice, including building 4 additional features since deploying the initial site.
- Developed a database and authentication system using Google Firebase for private note-keeping.
- Integrated a GET request to AWS Lambda containing a user's song input.

### C Compiler | C, Make, Flex, Bison

Moscow, ID

University of Idaho

Jan 2020 - May 2020

- Designed and implemented a compiler for a custom virtual machine using 90% of C grammar rules.
- Produced an abstract syntax tree to facilitate visualization of grammar relationships and support 30+ error and warning checks.
- Generated precise machine code for roughly 80% of test cases.

### Senior Capstone | Java, Google Maps API

Moscow, ID

University of Idaho

Aug 2021 - May 2022

- Spearheaded a 4-member research project to integrate a car's OBDII data with Google Maps on a mobile app for our client.
- Utilized the Android OBD-II Reader library to gather and test 10 critical OBDII mobile data points.
- Established a 1-1 intake manifold correlation with fuel consumption, resolving a critical issue for the client.

### Spotify Playlist | AWS Lambda, API Gateway, Spotify API

Portland, OR

Personal

May 2022 - June 2022

- Engineered an AWS Lambda function that adds songs to a specified playlist in real-time.
- Streamlined the function to only 70 lines of code, yielding 10% faster execution.

## Leadership

### Division 1 Athlete | Cross Country, Track & Field

Moscow, ID

University of Idaho

Aug 2017 - May 2021

- Headed a team of 12 cross country athletes fostering a cohesive team dynamic resulting in the highest team GPA in program history.
- Balanced a rigorous 20-credit academic schedule while also managing practice, meetings, development opportunities, and travel for the team.
- Received Big Sky All-Academic awards and achieved numerous athletic accomplishments as both an individual and as part of the team.

### Running Coach | Long Distance

Burns, OR

Steens High Altitude Running

Aug 2019 - Present

- Supervised a diverse group of 20 high school athletes through a week of mental and physical challenges leading to 100% of them seeing improvements in their running ability.
- Supported 200+ athletes with varying abilities through events including Cross Canyon, The Big Day, and the Uphill 5k with 95% completion.

## Skills

**Programming** C/C++, HTML/CSS, JavaScript, C#, Python, LaTeX, SQL, Flex/Bison.

**Miscellaneous** React, Git, AWS, Linux, Shell (Bash), Bootstrap, APIs (Google, Spotify) Firebase, Make.

**Soft Skills** Leadership, Dynamic, Time Management, Teamwork, Problem-solving, Client Communication.