

Caleb Seely

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Skills

- Programming** C/C++, Python, SQL, HTML/CSS, Java, JavaScript, C#, Flex/Bison.
Technologies React, Flask, SQLite3, Git, AWS (Lambda, EC2), Bootstrap, APIs (Google, Spotify), Make.
Soft Skills Leadership, Adaptability, Time Management, Teamwork, Problem-solving, Communication, Resilient.

Education

Computer Science Bachelor of Science | Mathematics Minor

University of Idaho

Moscow, ID

August 2017 - May 2021

- Big Sky Academic Honors, College of Engineering Deans List.
- Theory of Computation, Cryptography, Discrete Math, Linear Algebra, History of Mathematics.

Work Experience

React Developer | SDLC, REST APIs, Project Management

CSDev

Portland, OR

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.

OBDII Research | Java, SDLC, Google Maps API

University of Idaho

Moscow, ID

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.
- Applied SDLC methodologies ensuring project milestones were met and client requirements were satisfied.
- Established a 1-1 intake manifold correlation with fuel consumption, resolving a critical issue for the client.

Projects

Message Analysis Tool | Flask, Python, SQLite, JavaScript, Bokeh, AWS

Personal

Portland, OR

Sep 2024 - Present

- Developed a full-stack web app for uploading, parsing (Defusedxml), and visualizing (Bokeh) SMS/MMS data using Flask and SQLite.
- Implemented a caching system, reducing upload time by 60% and reload time by 90%, optimizing file processing and database queries
- Built an interactive front-end with jQuery and AJAX, enabling message searches and statistics like total messages and sent/received counts.

C Compiler | C, Make, Flex, Bison, Project Management

University of Idaho

Moscow, ID

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.

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

Personal

Portland, OR

Oct 2020 - Present

- Managed the project lifecycle using Agile methodologies, from initial design and development to deployment and ongoing updates.
- Implemented a JavaScript feature to rotate through unlimited projects, eliminating an original design limitation
- Integrated a GET request to AWS Lambda containing a user's song input.
- Set up CI/CD pipelines using GitHub and Netify for seamless deployment of new website features.

Spotify Playlist | AWS Lambda, API Gateway, REST APIs, JSON

Personal

Portland, OR

May 2022 - June 2022

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

Leadership

Track & Field Division 1 Athlete | Interpersonal Skills, Resiliency

University of Idaho

Moscow, ID

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.

Long Distance Running Coach | Interpersonal Skills, Adaptability

Steens High Altitude Running

Burns, OR

Aug 2019 - Present

- Supervised a diverse group of 20 high school athletes through a week of mental a 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.