

Caleb Seely

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Skills

Languages C/C++, Python, Java, Kotlin, MonkeyC, HTML/CSS, JavaScript, C#, SQL, Flex/Bison.

Tools React, AWS, Git, Linux, Firebase, Analytics, Shell (Bash), APIs (Google, Spotify), JIRA, Jupyter Notebooks, Make.

Work Experience

CameraClick

Portland, OR

CSDev | Android, Kotlin, AccessibilityService, Firebase, MonkeyC

- Built a production-grade Android app that triggers the native camera shutter via Bluetooth using accessibility controls.
- Implemented a robust UI node-detection system that dynamically identifies and activates the on-screen shutter button.
- Published to the Google Play Store; actively maintained with real users across multiple Android versions and devices.

React Developer

Portland, OR

CSDev | Project Management, SDLC, REST APIs

- Led 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, exceeding client expectations six weeks ahead of schedule.

OBDII Research

Moscow, ID

University of Idaho | Java, SDLC, Google Maps AP

- 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

CalebSeely.com V2

Portland, OR

Personal Website Rebuild | AI Tools, Tailwind CSS, JavaScript, APIs

- Designed and rebuilt a responsive personal website focused on design, web performance, and seamless user experience.
- Integrated multiple APIs including Strava (route data), Google Maps (route rendering), and Spotify (real-time music display).
- Optimized page speed by resizing and compressing large assets (e.g., hero images), preloading images, and improving client-side transitions.
- Used AI tools (Anthropic, Google Developer AI) to debug, explore best practices, and accelerate development.

Message Analysis Tool

Portland, OR

Personal | | Flask, Python, PostgreSQL, JavaScript, Bokeh

- 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.

Sales Prediction Model

Moscow, ID

University of Idaho | Machine Learning, Python, Pandas, Data Analysis, Prophet

- Developed a machine learning model to predict product sales using a Random Forest algorithm, focusing on real-world data analysis.
- Tuned model parameters (number of trees, tree depth) to achieve an optimal R^2 score of 93% while maintaining efficient training times.
- Analyzed and visualized sales trends, identifying seasonal spikes and data inconsistencies impacting model accuracy.

Leadership

Track & Field Division 1 Athlete

Moscow, ID

University of Idaho | Leadership, Time Management, Resiliency

- Led a team of 12 cross country athletes, fostering a strong team culture that contributed to the highest team GPA in program history.
- Actively supported teammates by engaging in development opportunities to enhance performance and team cohesion.
- Earned Big Sky All-Academic honors while achieving personal and team athletic milestones at the Division 1 level.

Altitude Running Coach

Portland, OR

Steens Mountain Running Camp | Interpersonal Skills

- Supervised large groups of diverse athletes, ensuring their safety and personal growth in high-stress, high-altitude training environments.
- Educated runners on technique, mental resilience, and injury prevention, fostering a deep connection and encouraging long-term participation.
- Transitioned into a leadership role, managing athlete safety during remote endurance activities and overseeing logistics for essential supplies.

Education

Computer Science Bachelor of Science | Mathematics Minor

Moscow, ID

University of Idaho

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