Caleb Seely

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Skills

Programming   C/C++, Java, Python, HTML/CSS, JavaScript, C#, SQL, Flex/Bison.
Miscellaneous   React, Git, AWS, Linux, Shell (Bash), Bootstrap, APIs (Google, Spotify) Firebase, Jupyter Notebooks, Make.
Soft Skills   Leadership, Adaptability, Time Management, Teamwork, Problem-solving, Communication, Resilient.

Work Experience

React Developer | SDLC, REST APIs, Project Management   *Portland, OR*
CSDev
- 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

Senior Capstone | Java, SDLC, Google Maps API   *Moscow,ID*
University of Idaho
- 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.

C Compiler | C, Make, Flex, Bison, Project Management   *Moscow,ID*
University of Idaho
- 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.

Class Schedule Database | MySQL, Apache, PHP, JQuery   *Portland, OR*
University of Idaho
- Led the design and development of a class scheduling database, creating a user-friendly UI/UX for students to manage their course selections.
- Developed experience with unfamiliar technologies for effective problem-solving of real-world challenges

CalebSeely.com | JavaScript, Bootstrap 4, HTML, CSS   *Portland, OR*
Personal
- Managed the project lifecycle using Agile methodologies, from initial design and development to deployment and ongoing updates, ensuring timely and efficient completion.
- 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 building, and deployment of new website features.

Spotify Playlist | AWS Lambda, API Gateway, REST APIs, JSON   *Portland, OR*
Personal
- 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

Track & Field Division 1 Athlete | Interpersonal Skills, Resiliency   *Moscow, ID*
University of Idaho
- 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   *Burns, OR*
Steens High Altitude Running
- 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.

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, Cryptography, Discrete Math, Theory of Computation, Linear Algebra, Statistics.