Caleb Seely

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TECHNICAL SKILLS

- C/C++
- JavaScript
- HTML/CSS
- Python
- React
- GitHub
- Lambda
- Flex / Bison
- APIs
- Client relations
- Bootstrap
- Firebase
- Linux / Unix
- AWS
- Writing
- Speaking
- OOP
- Agile

PROFESSIONAL EXPERIENCE

Online Storefront | React, CommerceJS
- Independently collaborated with a client to build an ecommerce site that can manage 100s of users
- Redesigned React elements to limit API calls by 90% and improve page load times
- Delivered initial requirements and publishing under client's domain 6 weeks ahead of schedule

PROJECTS

Spotify Playlist | Lambda, API Gateway
- Created an AWS Lambda function that adds 1 song at a time to a specified playlist
- Refactored function to 70 essential lines for enhanced readability and error handling

Personal Website | HTML, CSS, JavaScript, Bootstrap
- Developed a website to showcase projects, implement ideas, and learn new skills
- Utilized JavaScript to rotate through unlimited projects, eliminating an original design limitation
- Continually develop features for fun and practice when they come up
- Built 4 features since deploying the initial site for practice and out of curiosity such as:
    - A database and authentication system using Google Firebase for private note keeping
    - A GET request to AWS Lambda containing a user's song input

Senior Capstone | Android Studios, Java, Google Maps API
- Led a 4 man research project to connect a car's OBDII data and Google Maps to a mobile app
- Applied the Android OBD-II Reader library for OBDII mobile data collection and testing
- Identified and proved the intake manifold data has a 1-1 connection to fuel consumption, answering a critical question for our client

Mini C Compiler | Flex, Bison, C, Make
- Created a compiler using 90% of the C grammar rules targeting a custom virtual machine
- Developed an abstract syntax tree to visualize relationships within the grammar and support 30+ unique error and warning checks
- Generated accurate machine code for approximately 80% of test cases

LEADERSHIP

Division One Athlete | Track & Cross Country
- Led a 12 man cross country team through 2 full Covid seasons and numerous unforeseen challenges
- Balanced a 20 credit schedule on top of practice, meetings, development opportunities, and travel
- Earned Big Sky All-Academic awards with multiple athletic achievements as a team and individual

Steens High Altitude Running Camp | Coach & Counselor
- Led a diverse group of 20 high school boys through a week of mental a physical challenges fostering life skills
- Supported athletes of ranging abilities through events such as Cross Canyon, The Big Day, and other camp activities

EDUCATION

Computer Science Bachelor of Science | Minor: **Mathematics**   **Graduated May 2021**
- University of Idaho, Moscow, ID

Software Engineering
- Testing and verification, version control, development, best practices, ethics, SDLCs, UML, OOD, DFDs

Mathematics
- Calculus 1 & 2, Discrete Math, Theory of Computation, Linear Algebra, Statistics, History of Math