Caleb Seely

| calebseely@gmail.com | calebseely.com | github.com/Caleb-Seely | linkedin.com/in/caleb-seely

EDUCATION

Computer Science Bachelor of Science | Minor: Mathematics **Graduated May 2021**

- University of Idaho, Moscow, ID

Software Engineering

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

Information Assurance

- Security operations, vulnerabilities, management, assessment, testing, mitigation, and solutions

Python for Machine Learning | Python, Prophet

- Implemented a random forest algorithm to predict future products sales using three years of data

Mathematics

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

TECHNICAL SKILLS

- C/C++
- JavaScript
- HTML/CSS
- Python
- React
- Visual Studio
- Lambda
- Flex / Bison
- APIs
- Client relations
- Bootstrap
- Firebase

PROFESSIONAL EXPERIENCE

Online Storefront | React, CommerceJS

- Spoke with a client weekly to build an ecommerce website using React
- Redesigned React elements to limit API calls by 90% and improve page load times
- Implemented CommerceJS for user friendly product storage, payment processing, and order tracking
- Successfully launched the storefront under the customer's company domain

PROJECTS

Spotify Playlist | Lambda, API Gateway

- Created and AWS Lambda function to add songs to a Spotify playlist
- Connected the Lambda function to my website using API Gateway
- Built a function that sends user input to be added to the Playlist

Personal Website | HTML, CSS, JavaScript, Bootstrap

- Developed an HTML page to establish a quick look into my life for hiring teams' convenience
- Implemented JavaScript to rotate through my projects, eliminating an original design limitation
- Built a database and authentication system using Google Firebase for private note keeping

Senior Capstone | Android Studios, Java, Google Maps API

- Led a research project looking to connect a car's OBDII data and Google Maps to a mobile app
- Implemented the Android OBD-II Reader library for OBDII mobile data collection and testing
- Identified and proved intake manifold data is directly connected to fuel consumption, answering a critical question for our client

Mini C Compiler | Flex, Bison, C, Make

- Built a compiler using a subset of the C grammar rules that targeted a virtual machine
- Developed an abstract syntax tree to visualize relationships within the grammar and identify errors
- Generated accurate machine code for roughly 80% of test cases

LEADERSHIP

Division One Athlete | Track & Cross Country

- Led a cross country team through unique Covid seasons and its unknown challenges
- Balanced a full college schedule with practice, meetings, development opportunities, travel, & racing
- Earned Big Sky All-Academic and multiple athletic achievements as an individual and team