

# Caleb Seely

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## EDUCATION

**Computer Science Bachelor of Science** | Minor: Mathematics

**Graduated May 2021**

- University of Idaho, Moscow, ID

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### 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

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## TECHNICAL SKILLS

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

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## 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

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## 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

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## 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