| [calebseely@gmail.com](mailto:calebseely@gmail.com) | [calebseely.com](https://calebseely.com) | [github.com/Caleb-Seely](https://github.com/Caleb-Seely) | [linkedin.com/in/caleb-seely](https://www.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++ **•** Python **•** Lambda **•** Client relations
* JavaScript **•** React **•** Flex / Bison **•** Bootstrap
* HTML/CSS **•** Visual Studio **•** APIs **•** 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