

# Caleb Seely

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## EDUCATION

**Bachelor of Science in Computer Science | University of Idaho**

**Expected May 2021**

Minor: Mathematics

### Python for Machine Learning

- Classifiers, regressors, ensemble learning, ANNs, unsupervised learning, and clustering analysis

### Cryptography

- Feistel systems, cipher techniques, RSA, prime numbers, primitive roots, discrete logs, hashing

### Information Assurance

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

### System Analysis

- Gant & pert charts, RFP, DFDs, Cost / Benefit analysis, project management, process specification

### Mathematics

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

## PROJECT EXPERIENCE

### Personal Website

**September 2020 – Current**

- Front end web development practice while building a professional online image

### Smart Trip Planning | Senior Capstone

**August 2020 – May 2021**

- Connecting your car to your phone to locate the most economical gas stations for your trip

### Mini C Compiler | Compiler Design

**January 2020 – May 2020**

- Developed a compiler from parsing -> tree generation -> syntax analysis -> code generation

### Class Scheduling Database | Database Systems

**April 2020 – May 2020**

- Constructed a database to track classes of a user and suggest future classes based on a career

### Meteor Beat | Software Engineering

**September 2019 – December 2019**

- Unity game for full scale development from RFPs to stress testing and everything in between

### Maze Path Solving | Data Structures

**September 2018 – October 2018**

- C++ solution to find if a provided maze text file is solvable, using breadth first search

## TECHNICAL SKILLS

- Adept in C and C++
- Familiar with Python, JavaScript, C#
- HTML, CSS, BS4, and PHP knowledge
- GitHub
- Unity
- Visual Studios
- Flex / Bison
- Google APIs
- MySQL

## PROFESSIONAL EXPERIENCE

### Division 1 Athlete | University of Idaho Track & Cross Country

**2017 - 2021**

- 20+ hours a week of practice plus competition and travel on weekends, meetings, and recruiting

### Lifeguard | Portland Parks and Recreation

**2015 - 2019**

- Management, CPR & first aid certified, weekly training, customer service and audits

### Volunteer Work

**2017 - 2020**

- Paint the Palouse, Moscow canned food drive, Trick or Treat the Dome, Moscow Charter School

## ACADEMIC HONORS

- College of Engineering Dean's List **2020**
- Big Sky All-Academic Award **2018**
- College of Engineering Dean's List **2018**