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**