

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

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

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