**Collin Smith**

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**Education**

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| Master of Science in Computer Science NEU | Seattle, WA | 2017-present |
| ALIGN Program, Northeastern University | Seattle, WA | 2016-2017 |
| Ranger Leadership School US Army | Ft. Benning GA | 2009 |
| Airborne School US Army | Ft. Benning GA | 2007 |
| Bachelor of Science in Agribusiness, Washington State University | Pullman, WA | 1996-2000 |
| Associate of Applied Science in Botany/Tree Fruit Production | Wenatchee, WA | 1994-1996 |

**Technical Expertise**

Languages: C, C++, Python, Javascript, HTML, CSS, Java

Tools/Library: Ulfius, Jansson, Flask, SQLAlchemy, Gson, Git Version Control, Sklearn, Tensorflow

Systems: Windows, Ubuntu 16.04, Arduino, Pintos, Debian

**Experience**

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| [Machine learning Classification and Regression,](https://github.com/Attonasi/mach_learning_midproj) | Seattle, Wa | November 2018 |

* Use Sklearn tools L1and L2 normalization,1 hot encoding, and imputation to prepare 3 datasets
* Used support vector machines, gradient boosting classification to predict the age of abalone.
* Used Naïve-Bayes classifiers and gradient boosted classifiers to predict whether it would rain in Australia
* Used Linear Regression and Gradient Boosting Regression to predict median housing prices

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| [OS Threading, Lock, and Priority Donation Simulation](https://github.com/Attonasi/threading_sim) | Seattle, WA | November 2018 |

* Used C to Simulate the locking, priority access and sleep functions of threads in an operating system.
* Previous project used C to read and ELF file and build an ELF\_Header structure.
* Currently using C to implement virtual memory in the Pintos operating system.

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| [Book API](https://bitbucket.org/msdteam2/msd-book-api/src/master/), [Book Web Service](https://bitbucket.org/msdteam2/msd-library-client/src/master/) | Seattle, WA | August 2018 |

* Built a REST API for a book service using Flask for the endpoints and SQLAlchemy

to create a Postgre database

* Using Javascript/HTML/CSS built a front end for a book service using another team’s API
* Supported a team who used Angular to build a front end for our book service API.

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| [Tic Tac Toe,](https://github.com/Attonasi/tic_tac_toe) | Seattle, WA | May 2017 |

* Used Ulfius library in C to create a REST server and Jansson library to facilitate JSON protocol
* The server took a request with a complete game state and returned a new game state.
* The computer never loses.
* Built the client in Java using HTTP and Gson libraries to send REST requests to the server.

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| Founder Blewett Pass Farms Peashstin, | Peshastin, WA | 2013-2016 |

* Managed 15 full time employees and additional 15 seasonal workers.

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| Designed and Created an Assault Ladder | Spanaway, WA | 2011 |

* Extendable, bridges 12’ gap, solid wide steps for extended observations
* 4 patent claims

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| Washington National Guard 2011-2013 | Seattle, WA | 2011-2013 |

* Served in 2012 Unit Training in Yakima, WA
* Fitness Excellence award 2013

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| US Army 2nd Battalion 75th Ranger Regiment | Ft. Lewis, WA | 2007-2011 |

* Four Deployments – Iraq (1 deployment), Afghanistan (3 deployments)
* Over 200 direct action missions
* TS/SCI clearance
* Team Leader and Special unit attachment on 3rd and 4th Deployments
* Signed for over 2 million dollars of equipment on 4th deployment

**Volunteer Work**

* Volunteer Soccer/Wrestling coach Cascade High School
* Taught Self Defense at Washington State University
* Helped Habitat for Humanity build 2 houses.