

Michael Remington

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Education	<i>Bachelor of Science</i> , Computer Science Western Washington University, Bellingham, WA, expected June 2016
Experience	<div><div><i>Undergraduate Researcher</i> Hutchinson Machine Learning Lab, Western Washington University, Bellingham, WA<ul style="list-style-type: none">Designed and implemented deep and recurrent neural network models to predict sports data.</div><div><i>Research Lab Assistant</i> Rose Neuroscience Lab, Western Washington University, Bellingham, WA<ul style="list-style-type: none">Wrote a program in Java to automate the task of coding microscope images to be evaluated without bias. This reduced image coding time from around forty minutes to near instantaneous.Prepared and microinjected plasmids into <i>C. elegans</i>.</div></div>
Projects	<div><i>Course Projects:</i><ul style="list-style-type: none">Created and implemented a neural network object in Java that supports classification, regression, and logistic modes.Wrote a Java program that clusters data points using the K-means and single-link agglomerative clustering methods.Wrote a Python program that recursively generates a tree of the state-space for a game of Nim and beats a human player.Developed a program in Java that builds phylogenetic trees using a clustering algorithm and pairwise distances between aligned amino acid sequences.Wrote a banking program in Java using concurrency methods that was able to process 10,000,000 transactions across 100 accounts significantly faster than a sequential program.Implemented a server and two distinct types of client for an online chat application using sockets in C.Created a program in Java using hash sets and linked lists that is able to automatically discover words from input text using bigram products.Developed a speech recognition program in Java which takes as its input a directed acyclic graph.Applied a series of buffer overflow attacks on an executable file after analyzing and probing the assembly code using the GDB debugger.</div>
Programming Languages	<div><i>Skilled With:</i> Java, Python, C. <i>Experienced With:</i> Ada, Assembly, Visual Basic, Racket HTML, CSS. <i>Tools:</i> Git, Subversion, GDB.</div>
Publications	<div><i>Conference:</i> Jacqueline Rose, Nicole Stankowicz, Amanda Leonti, Parker Stafford, Michael Remington, Katrina Mar, Samuel Moss, Andrew Records-Galbraith. <i>Examination of the Interplay between Acetylcholine and GABA signaling at the NMJ</i>. CeNeuro 2014.</div>