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# Pierce Mayadag

## Education

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Socorro, NM	<u>New Mexico Tech</u>	Aug 2016-May 2021
<ul style="list-style-type: none"><li>• <b>Major:</b> Computer Science</li><li>• <b>Programming Coursework:</b> Algorithms &amp; Data Structures, Operating Systems, Networks, Soft Computing, Compiler Writing, Databases, Software Engineering, Web Programming</li><li>• <b>Math Coursework:</b> Calculus 1&amp;2, Statistics, Set Theory and Formal Proofs</li></ul>		

## Employment

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Junior Software Developer	<u>Institute for Complex Additive System Analysis</u>	May 2017-Aug 2019
<ul style="list-style-type: none"><li>• Vastly Expanded Java API for Google's Tensorflow and maintained it during transition from version 1.7 to 1.13</li><li>• Designed and maintained unit tests for the Tensorflow API</li><li>• Integrated Tensorflow into a visual graph operations software. This made it possible to build, train, and test neural networks via graphical user interface</li><li>• Designed python scripts for signal processing and deep neural network training as part of a team focused on automated language detection from audio data.</li><li>• Worked in Atlassian Suite (Jira, Confluence, Bitbucket, Bamboo) and on Debian Linux systems.</li></ul>		

## Software Projects

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<u>Martial Arts Stance Classification</u> (3 person team)	<a href="https://github.com/The-Grandmasters/StanceClassification">https://github.com/The-Grandmasters/StanceClassification</a>
<ul style="list-style-type: none"><li>• Created a software pipeline that classifies images of people performing martial arts as 1 of 7 possible stances.</li><li>• Integrated an open-source 3D pose-estimation project as an intermediary step between the image and classification.</li><li>• Classified dataset using Convolutional Neural Networks, KNN, SVM's, and Random Forest Classifiers.</li><li>• Achieved 78% test accuracy with best model</li><li>• <b>Utilized:</b> Python, Tensorflow, Pytorch, Numpy, Git</li></ul>	
<u>Icebreakr Dating Website</u> (3 person team, project leader)	<a href="https://weave.cs.nmt.edu/apollo9/Icebreakr/">https://weave.cs.nmt.edu/apollo9/Icebreakr/</a> <a href="https://github.com/Dr3amMach1n3/Icebreakr">https://github.com/Dr3amMach1n3/Icebreakr</a>
<ul style="list-style-type: none"><li>• Created a dating website based around the concept of prioritizing conversations between users.</li><li>• Integrated remote database queries and insertions</li><li>• Deployed website and database on remote server</li><li>• <b>Utilized:</b> HTML, CSS, Bootstrap, Javascript, JSP, Java Servlets, Java Beans, MVC Design Pattern, Git</li></ul>	
<u>LISP Interpreter</u> (Individual)	<a href="https://github.com/2-FingeredTyping/Java_LISP_Interpreter">https://github.com/2-FingeredTyping/Java_LISP_Interpreter</a>
<ul style="list-style-type: none"><li>• Implemented a basic LISP interpreter in Java 8</li><li>• Supports: variable definition, reference &amp; assignment, constant literals, quotation, conditionals, function definition integer arithmetic, comparison operators, and the car(), cdr(), cons(), sqrt(), &amp; exp() functions.</li><li>• <b>Utilized:</b> Java, Abstract Classes, Recursion</li></ul>	

## Skills

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**Software:** (*proficient*): C, Python, Java, Unix, Git, Tensorflow, HTML/CSS (*familiar*): JavaScript, Matlab, SQL, LISP, C++  
**Inter/Intra-personal:** Technical Communication, Public Speaking, Project Design, Time Management, Prioritization