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https://github.com/2-FingeredTyping

Pierce Mayadag

Education

Socorro, NM **New Mexico Tech** **Aug 2016-May 2021**

- **Major:** Computer Science
- **Programming Coursework:** Algorithms & Data Structures, Operating Systems, Networks, Soft Computing, Compiler Writing, Databases,Software Engineering, Web Programming
- **Math Coursework:** Calculus 1&2, Statistics, Set Theory and Formal Proofs

Employment

Junior Software Developer **Institute for Complex Additive System Analysis** **May 2017-Aug 2019**

- Vastly Expanded Java API for Google's Tensorflow and maintained it during transition from version 1.7 to 1.13
- Designed and maintained unit tests for the Tensorflow API
- Integrated Tensorflow into a visual graph operations software. This made it possible to build, train, and test neural networks via graphical user interface
- Designed python scripts for signal processing and deep neural network training as part of a team focused on automated language detection from audio data.
- Worked in Atlassian Suite (Jira, Confluence, Bitbucket, Bamboo) and on Debian Linux systems.

Software Projects

Martial Arts Stance Classification (3 person team) https://github.com/The-Grandmasters/StanceClassification

- Created a software pipeline that classifies images of people performing martial arts as 1 of 7 possible stances.
- Integrated an open-source 3D pose-estimation project as an intermediary step between the image and classification.
- Classified dataset using Convolutional Neural Networks, KNN, SVM's, and Random Forest Classifiers.
- Achieved 78% test accuracy with best model
- **Utilized:** Python, Tensorflow, Pytorch, Numpy, Git

Icebreakr Dating Website (3 person team, project leader) https://weave.cs.nmt.edu/apollo9/Icebreakr/
https://github.com/Dr3amMach1n3/Icebreakr

- Created a dating website based around the concept of prioritizing conversations between users.
- Integrated remote database queries and insertions
- Deployed website and database on remote server
- **Utilized:** HTML, CSS, Bootstrap, Javascript, JSP, Java Servlets, Java Beans, SQL, MVC Design Pattern, Git

LISP Interpreter (Individual) https://github.com/2-FingeredTyping/Java_LISP_Interpreter

- Implemented a basic LISP interpreter in Java
- Supports: variable definition, reference & assignment, constant literals, quotation, conditionals, function definition integer arithmetic, comparison operators, and the car(), cdr(), cons(), sqrt(), & exp() functions.
- **Utilized:** Java, Abstract Classes, Recursion

Skills

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