

Dhruva Mambapoor

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Education

Bachelor of Science, Computer Science *Honors (CS^2)*, May 2022

Dean's List – 1 Semester

The University of Texas at Dallas

Honors selects only 30 students out of all freshman computer science majors.

Work Experience

Machine Learning Intern, SigTrak

Summer 2019

- Coded from scratch a time-series forecasting algorithm using machine learning (Tensorflow and Keras)
- Assisted with various data pruning tasks

Assistant Debate Coach, Westwood High School

Fall 2018 - Present

- Assisted students with developing research skills and compiling high quality evidence
- Conducted personalized and group skills training

Relevant Coursework

Computer Science: Data Structures and Algorithms, C++ Programming, Advanced Programming in a Unix Environment, Computer Architecture, Discrete Mathematics I & II, Probability and Statistics in CS, Automata Theory*, Org of Programming Languages*, Object Oriented Design*, Artificial Intelligence*

Math: Calculus I & II, Multi-Variable Calculus, Linear Algebra

* Spring 2020

Projects

- *Phonebook (C++)* Incorporated abstract classes, menu options, undo and redo functionality, vectors, linked-lists, stacks, iterator support
- *Trie Spellcheck* (C++)* – spellchecker created using a Trie (sic, not tree)
- *Directory Install (Bash)* – creates a company-specific directory and fills with relevant files
- *Protanopia Image (Java)* – shows how images would look with red-green colorblindness
- *Summation Function (MIPS)* – asks for number through OS and calculates sum till that #
- *Keyword Finder (Python)* – takes article, isolates keywords to find similar google results
- *Chord Generator (Python)* – generates chord progression to assist in music composition

*On Github: <https://github.com/dmambapoor/Code-Samples.git>

Skills

Programming Languages: C/C++, Java, Javascript, Python, Bash, MIPS, Processing, HTML

Misc.: Vim, Machine Learning (Keras & Tensorflow), UNIX-based OS