NICOLAS WINSTEN

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PROFESSIONAL SUMMARY

New graduate of computer science with broad coursework experience. Particularly passionate about programming languages and compilers.

SKILLS

- · Java, Python, C
- Web development (Javascript, Elm, d3.js)
- Functional Programming (Haskell, Scala)
- Git

EDUCATION

University of Arizona

Bachelor of Science

Computer Science

summa cum laude

University of Arizona

Master of Science

Computer Science

- 4.0 GPA
- graduate coursework in compilers, database management systems, data visualization, data systems, computation theory, software engineering

PROFESSIONAL EXPERIENCE

University Of Arizona - Research Assistant

05/2022 - 05/2023

 Designed and executed experiments in modeling resource contention in high performance computing

University Of Arizona - Tutor 02/2019 - 01/2021

- Tutored diverse groups of students in computer science concepts
- Collaborated with learning challenged students to complete homework assignments, identify lagging skills, and correct weaknesses

PROJECTS

Tiny C compiler

· Written in C, targeting MIPS assembly

IBM Watson clone

• Question answering language model built with Scala and Lucene

SIGMOD 2023 Programming Competition

- Challenge to build the most accurate nearest neighbor graph for 10 million (100 dimensional) vectors in limited time
- Explored state-of-the-art graph based solutions and novel improvements

Nemanodes

- Team project
- In-browser simulation of a petri dish of tiny creatures that evolve neural networks using the NEAT algorithm
- · Built with Javascript and PIXI.js

P2P Wikipedia Game

- Peer-to-peer web app to play the Wikipedia game
- · Incorporates data visualization of player moves and an AI pathfinder
- Built with Elm