Christopher Oosthuizen

Computer Science student and programmer of eleven years
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Education

University of Houston **Houston, Texas**
Bachelors of Science in Computer Science *Aug 2023- expected May 2026*

- Relevant courses: Linear Algebra, Statistics, Calculus 1, Calculus 2, Intro to Programming, Algorithms and Data Structures

Experience

Code Coogs **University of Houston**
Team Lead *Aug 2023- present*

- Lead and mentor a team of sixteen coders.
- Led the production of an interactive map using machine learning, Google Cloud, TensorFlow, and climate models, allowing users to select any coordinate and receive predictions on the high summer temperatures for the next 20, 50, and 100 years.

SAIL LAB **University of Houston**
Research Assistant *Sep 2023- present*

- Helped do research on Hallucinations in Large Language Models
- Worked with Pytorch, LLAMA2 and knowledge graphs to identify and fix hallucinations with LLMs
- Independently created data for fine tuning LLAMA2 model

Code Ninjas **Houston, Texas**
Tutor *2020-2022*

- Coding instructor for kids using languages such as Javascript, C#, and Lua
- Worked with kids 5-12 in groups of 5 twice a week.

Activities

Cougar CS **University of Houston**
Tutor *2023*

- Tutor CS Students in all freshman to sophomore level CS classes.
- Spend 4 hours in person tutoring and teaching students in computer science topics each week.
- Tutored about 50 different people through various programming assignments

Personal Projects

ABLaze - **2021**

- https://github.com/ChristopherOosthuizen/ABlaze
- Using C++, created a fully compiled programming general purpose programming language with python like syntax.
- A Turing complete programming language, with a standard library and low level programming capabilities.

Rising Tides - **2021**

- https://github.com/NickOosthuizen/Rising-Tide
- A fullstack web app utilizing the google cloud API that returns whether a given location is at risk of flooding.
- Used React, SQL and Django to create a advocacy app for the 2021 UCLA Hacks Coding competition

Web Cooster - **2020**

- github.com/ChristopherOosthuizen/SearchEngine
- A search engine built from the ground up which required me to make a custom web framework, in-memory database, and web scraper.

Technical Skills

Languages: C++, Java, Bash, C, Node, Python and Javascript
Developer Tools: Linux, Shell Programming, Git, Github, Google Test, Canva
Technologies/Frameworks: Pytorch, Tensorflow, Numpy, React, Svelte, JUnit, CSS, HTML, MASM, and Django