

# CHRISTOPHER OOSTHUIZEN

Computer Science student and programmer of eleven years

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[github.com/ChristopherOosthuizen](https://github.com/ChristopherOosthuizen) Personal Website: [chrisoosthuizen.com](https://chrisoosthuizen.com)

## Education

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### University of Houston

Houston, Texas

*Bachelors of Science in Computer Science*

*Aug 2022- expected May 2025*

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

## Experience

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### SAIL LAB

University of Houston

*Research Assistant*

*Sep 2023- present*

- Helped do machine learning research on Hallucinations in Large Language Models, and improving their nlp capabilities
- Worked with Pytorch, GPT-4, LLAMA2 and knowledge graphs to identify and fix hallucinations with LLMs
- Independently created data for fine tuning LLM's

### Dragon Developers

Houston, Texas

*software engineer*

*November 2023-present*

- On a contract job led the development of a dynamic football play application using React and Express.js as a tech stack, enhancing user interaction and performance.
- Implemented OAuth authentication to ensure secure user access and data protection, contributing to robust security measures in the application.
- Optimized application performance through efficient coding practices and rigorous testing, leading to a significant reduction in load times and improved usability

### 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

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### 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

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### 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](https://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

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**Languages:** C++, Java, Bash, C, Node, Python and Javascript

**Developer Tools:** Linux, Shell Programming, Git, Github, Google Test, AWS

**Technologies/Frameworks:** Pytorch, Tensorflow, Numpy, React, Svelte, JUnit, CSS, HTML, MASM, and Django