

**Andrew Williams**

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## SKILLS

Node, Express, Postgres, Swagger, OpenAPI, SQL, HTML, CSS, SASS, Bootstrap, NextJS, React, Babel, Webpack, Postman, Docker, Python, Pandas, Matplotlib, AI, Fine-Tuning, Dataset Creation, Dataset Validation, BeautifulSoup4, NumPy

## OVERVIEW

I am a motivated student programmer with 4 years of experience seeking a back-end web developer position. Currently pursuing a Bachelor's Degree in Computer Science, I have a good understanding of various programming languages and my programming style is built on a strong foundation of programming principles. I am well-versed in back-end technologies such as Node and Postgres as well as HTML, CSS, and React. I work well both independently and within a team environment and I am always eager to learn and grow. I am passionate about coding and would love to have the opportunity to make myself a valuable member of your team.

## EXPERIENCE

- HousePriceAnalyzer (Jul. 2021 – Sep. 2021)
  - I created a Python script that collected house prices of any specified location by utilizing multiple API endpoints that had been reverse-engineered specifically for this project. Afterwards, the collected data would be processed using pandas to perform additional analysis, visualized with matplotlib, and, if desired, exported as a CSV file.
- GPUStalker (Jun. 2021 – Jul. 2021)
  - I created a Python script to monitor GPU prices during the peak of the GPU/chip shortage. The script utilized reverse-engineered API endpoints specifically tailored for this project. The resulting data was presented through the standard output. Afterwards, I returned to the project and implemented console tracking as an additional feature.
- Video Streamer (Nov. 2022 – Jan. 2023)
  - I developed a comprehensive web application using Node.js, enabling users to create their personalized streaming service by providing their own videos, descriptions, episode numbers, etc. The front-end of the application was constructed using React, Webpack, SASS, and later revisited to incorporate Next.js. On the back-end, Postgres, Express, and Node.js were utilized to ensure seamless functionality.
- AI Voice Cloning (Jun. 2023 – Jul. 2023)
  - I developed several Python tools to assist in data parsing prior to fine-tuning a VITS model for voice cloning. These tools included automatic audio normalization, automatic audio configuration, transcription, and conversion of short-form to long-form words, all aimed at ensuring a high-quality dataset. The targeted voice was successfully cloned, and I am currently engaged in ongoing research and testing to enhance the output further.

## **INTERESTS**

As a self-motivated individual, I am always seeking new challenges and opportunities to expand my knowledge and expertise. This drive extends to my personal life where I enjoy taking on DIY projects and learning new skills. In my free time, I enjoy exploring new programming languages and experimenting with different technologies to further develop my skills as a developer.

## **EDUCATION**

- Smoky Hill High School – Diploma (Aug. 2017 – May 2021)
- Pikes Peak State College – Bachelor's (Feb. 2022 – TBD)

## **CERTIFICATIONS**

- Back End Development and APIs (Jun 2023)
- Responsive Web Design (Jul 2023)

## **REFERENCES**

Excellent references provided upon request.

## **CODE SAMPLES**

<https://github.com/andrewdotjs>