

# Nicholas Baker

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## EDUCATION

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**University of Texas at Dallas**, Richardson, TX

*Bachelor and Master of Science in Computer Science*

*August 2019 - May 2023 (expected)*

- GPA: 4.0/4.0

**Collin College**, Plano, TX

*September 2018 - May 2019*

- GPA: 4.0/4.0

## SKILLS

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**Languages/Tools** Python, C++, Java, HTML/CSS, Javascript, ReactJS, Angular, Docker, MySQL, Cypress, VSCode

**Relevant Course Material** Data Structures and Algorithmic Analysis, Computer Architecture, C/C++ in Unix Systems, Org. of Programming Languages

## WORK EXPERIENCE

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**Software Developer Intern**, Tritech Software

*June 2020 - Present*

- Built a foundation for E2E testing using Cypress
- Assisted with website development in Angular
- Performed basic modifications on ETL batch jobs run through Spring Boot

**Assistant Yoyo Instructor**, University of Arlington, TX

*June 2016 - 2019*

- Taught Chinese Yoyo and directed performances at a summer youth camp

## PROJECTS

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**Discord Local Media Bot (Python)**

*May 2020*

- Created using the discord.py (*ver 1.4.0a*) API wrapper for Discord
- A bot that allows audio files from its host machine to be directly played into a voice call and enqueued into a playlist that is manageable through common media player commands

**Down to Dine**, Yelp's Fusion API Challenge (**HTML, CSS, Javascript**)

*February 2020*

- A website designed to give quick access to nearby dining options and provide restaurant info using HTML5 Geolocation and Yelp's Fusion API

**News Unchained**, HackUTD VI (**Javascript**)

*November 2019*

- Placed **1st** for the challenge sponsored by Cognizant
- Team collaboration to develop a chrome extension which filters bias from articles
- Utilized HTML web scraping and the Google Natural Language Processing API

**Waveform Audio File Analyzer (Python)**

*April - June 2019*

- Tk GUI application which applies the Discrete Fourier Transform (DFT) in order to identify notes/pitches from PCM data in audio files and provide graph visualizations

**Neural Network Simulation (Java, Python)**

*July - August 2019*

- Array-based Neural Networks from scratch in both Python and Java
- Neural Network-piloted movement and backpropagation algorithm implementation

## HOBBIES

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Chinese Yoyo, Violin, UTD Codeburners Club (Competitive Coding), Gaming, Anime