# Nicholas Baker

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## EDUCATION

**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

## SKILLS

**Languages/Tools:**
  Python, Java, Javascript, HTML/CSS, C/C++, SQL, React, Angular, TypeScript, Docker, Google Cloud Platform

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

## WORK EXPERIENCE

**Software Developer Intern**
*Tritech Software & Services, Allen, TX, June 2020 - Present*
  - Fixed numerous bugs and made enhancements to Angular site  codebase
  - Set up an E2E testing framework for future web app developments using Cypress
  - Learned SQL in order to make updates to Spring Batch ETL Jobs
  - Gained experience deploying production containers to Google Cloud Platform

**Assistant Yoyo Instructor**
*University of Arlington, TX, June 2016 - 2019 (summers)*
  - Attended a summer youth camp where I taught Chinese yoyo in preparation for a stage performance

## PROJECTS

**News Unchained**
*HackUTD VI, Richardson, TX, November 2019*
  - Placed **1st** for *Best Text Objectivity Analysis* category sponsored by Cognizant
  - Developed a Chrome extension to filter bias from articles using Javascript DOM manipulation and the Google Natural Language Processing API

**Down to Dine**
*Yelp Fusion API Challenge, February 2020*
  - A website designed to give quick access to nearby dining options and provide restaurant info which uses HTML5 Geolocation and Yelp's Fusion API

**Audio Waveform Analyzer**
*April - June, 2019*
  - Python TK GUI application which applies the Discrete Fourier Transform (DFT) in order to identify notes/pitches from PCM data and provide graph visualizations

**Neural Network Simulations**
*July - August, 2019*
  - An array-based neural network model implemented from scratch in both Python and Java
  - Features real-time neural network controlled movement and a backpropagation algorithm implementation

**Discord Local Media Bot**
*May 2020*
  - 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
  - Created using the discord.py *(ver 1.4.0a)* API wrapper for Discord

## HOBBIES

Chinese Yoyo, Violin, UTD Codeburners (Competitive Programming), Gaming, Anime