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|Skills:

- Python, Java, Javascript, HTML/CSS, C/C++, SQL, Kotlin, React, Angular, TypeScript, Docker, Maven, 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
- Applied SQL concepts in order to make adjustments to Spring Batch ETL Jobs
- Gained experience using Google Cloud Platform by deploying containers and setting up cloud storage integration with API services running on Spring Boot (Kotlin)

Assistant Yoyo Instructor

University of Arlington, TX, June 2016 - 2019 (summers)

- Taught a wide range of Chinese yoyo tricks to 200+ students over the course of a one-week summer youth camp 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
- 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

Personal Project, 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

Personal Project, 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

Personal Project, 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