

Nathan Fenoglio

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Summary

Computer Science graduate with early career experience in software development. Proficient in C++, Java, Python, C#, and JavaScript. Effective communicator eager to expand skills as a software developer and collaborate with a team. Strong interpersonal abilities facilitate effective collaboration with colleagues, contributing to the overall success of projects.

Education

Bachelor of Science in Computer Science-----May 2024
University of Texas at Arlington-----Arlington, TX

- GPA: 3.9 (Summa Cum Laude)
- Dean's List, all semesters
- Member of Upsilon Pi Epsilon
- Relevant Coursework: Object-Oriented Software Engineering, Databases, Artificial Intelligence, Datamining, Fundamentals of Machine Learning, Computer Graphics, Parallel Processing

Work Experience

Software Developer/Customer Service-----June 2016 - Present
TST/Impreso-----Coppell, TX

- Streamline and automate order entry, invoice sending and receiving, freight bill analysis, coding, and payment using RPG, SQL, CL, Python, C++, Java
- EDI mappings - purchase orders (850), ship notifications (856), freight details and invoice (210)
- Create documentation/user manuals for applications, order entry account training instructions
- Process orders, provide customer service for E-commerce accounts (Sam's Club, Amazon, eBay, Staples, Office Depot) and other large national paper vendor accounts

Store Manager-----Feb. 2013 – June 2016
Empire Petroleum Partners-----Fort Worth, TX

- Successfully increased sales year over year
- Coached staff to maintain cleanliness standards and excellent customer service to achieve consistently high scores on inspections
- Back-office paperwork for 2 companies – 7-11 and Empire Petroleum
- Hired, trained new employees, employee schedules, payroll

Skills

- Languages: C, C++, C#, Java, JavaScript, TypeScript, Python (pandas, NumPy, scikit-learn), RPG, SQL
- Technologies: React NodeJS, MySQL, AWS, Firebase, Git, Linux
- Effectively communicate concepts in a manner that caters to technical and non-technical understanding
- Enjoy learning, teaching, and idea creation through collaboration with teammates
- Utilize critical thinking and employ a solution-oriented approach to solving technical challenges effectively

Projects

- **Customer Service Chatbot** **Apr 2025**
 - Locally run LLM chatbot for company employees to be able to query their personal and company documents privately without their data being sent to an AI provider
 - The LLM is run entirely locally but able to be accessed by users with login credentials remotely through web browser
 - Users can control what documents their chatbot has access to through updating the contents of their assigned Google Drive folder
- **Midi Montage Image Sequencer** **Jan 2025**
 - Next.js and Tailwind CSS project using Web MIDI API to receive MIDI messages to trigger display of image sequences
 - <https://midi-montage-image-sequencer.vercel.app/>
- **Several websites** **Dec 2024**
 - Personal website and websites for others using React JS, AWS, Firebase
 - nathan-fenoglio.com
 - beatrix-website.web.app
- **SmartPaws Virtual Veterinarian** **May 2024**
 - React Native iOS and Android application using Typescript, Express, MongoDB, Firebase, OpenAI Assistants API
 - comprehensive personalized pet care app for creating pet profiles, journal entries, veterinarian map locator
 - separate conversation thread per registered pet with virtual veterinarian chatbot that retains pet profile information and previous conversation knowledge to generate personalized pet advice
- **Midi Harmonizer Juce Plugin** **Jun 2023**
 - VST3 Midi plugin created with Juce framework for user to input scale for harmony and intervals for notes to add for use in a DAW (Digital Audio Workstation)
- **Restaurant Menus** **Jan 2023**
 - Web App using TypeScript and React that displays restaurants for user to select from and allows user to select menu items for 2 diners with certain rule constraints enforced with ability to delete menu items previously selected
- **Multidimensional Mazes With 3D Rotations** **July 2022**
 - JavaScript web app using p5.js library that generates a 3-dimensional maze of user specified dimensions using depth first search traversal
 - Represented as a series of connected 2 dimensional planes
 - Ability to rotate the maze in all of 6 possible ways (up, down, left, right, in, out) to change perspective of player's approach to same maze
 - nathanfenoglio.github.io/multi_dimensional_mazes_with_3d_rotations
- **Tower of Hanoi Animation** **July 2022**
 - JavaScript animation of moving disks while solving 3 pole Tower of Hanoi puzzle
- **Graph Traversal Sequencer** **June 2022**
 - Desktop application for drawing graphs and generating midi note sequences with various graph algorithms using IMGUI and C++
- **Pattern Generating Music Sequencing App** **May 2022**
 - C++ wxWidgets form that takes 2 sequences and allows user to perform various operations on them to generate music sequences
- **Escape From Underground Terrestrial Abyss** **Dec 2020**
 - Mobile and Desktop Video Game created with Unity and C# as a group project at UTA
 - 2D platformer with maze design, switches, keys to unlock doors, powerups, enemies, bosses.
 - Available to play in web browser or through Google Play store
 - simmer.io/@nathanfenoglio/escape-from-underground-terrestrial-abyss
 - play.google.com/store/apps/details?id=com.TheATeam.EscapeFromUndergroundTerrestrialAbyss