# Tim Tersigni

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Portfolio Website: timtersigni.com

# **Junior Software Developer and IT Analyst**

Detail-oriented entry-level Computer Science professional with a solid grounding in IT, JavaScript, Python, and Object-Oriented Programming, complemented by experience in front-end frameworks and computer networking. Exhibits strong communication skills and a collaborative spirit, excelling in team environments and manifesting in projects like a medical dashboard for a healthcare startup. Embraces a focus on continuous learning, particularly in applying technical knowledge to benefit others, showcasing a blend of analytical, creative, and problem-solving skills suited for dynamic and impactful roles in IT and software development.

### **EDUCATION**

## **University of Texas at Dallas**

Richardson, TX

Bachelor of Science, Computer Science 3.3 GPA

May 2023

- Merit Scholarship: UT Dallas Academic Excellence Scholarship
- Upper Level Electives: Computer Networking and Lab, Machine Learning, Computer Graphics

#### **WORK HISTORY**

The Carpet Stop

Austin, TX

Part Time IT and Sales Assistant

Dec 2018 - Aug 2021

- Managed software installation and connected computers to the network attached storage
- Updated pricing and inventory databases every month increasing efficiency by 25 percent
- Analyzed blueprints and planned optimal carpet layout to minimize waste and maximize utility

Open Austin Austin, TX

Civic Programmer and Data Analyst

Dec 2023 - Current

- Collaborated with a six-member team to enhance community groups' access to city data
- Used Python, Pandas, and the OpenAl API to audit city gentrification and displacement reports
- Visualized collected data with Matplotlib and documented approach in Jupyter notebooks

### **ACADEMIC/PROFESSIONAL PROJECTS**

# Nerveli Medical Dashboard - https://www.youtube.com/watch?v=4PQANvC7iZY

- Led team of six to develop medical dashboard web app for pain management startup Nerveli
- Directed weekly standups and managed team Trello and GitHub for efficient task completion
- Developed front-end using Next.is, TypeScript, Git, and npm to clearly display patient records
- Created API routes connecting dashboard to MongoDB database hosted on MongoDB Atlas

## 4-Bit Breadboard ALU (Arithmetic Logic Unit) - https://www.youtube.com/watch?v=whvLmXYZUJQ

- Designed circuit diagram of ALU capable of 10 arithmetic and logic functions using Logisim
- Wired ALU circuit using Texas Instruments' logic gate, flip flop, and multiplexor SN74LS chips
- Proved ALU functionality by testing output for each operation with randomly generated cases

### Client Server Chat - https://www.youtube.com/watch?v=YPdN8 7-mF0

- Wrote multi-threaded server program in Python using TCP and UDP protocols to authenticate client connections, manage encrypted chats between users, and handle server commands
- Developed chat client and log system to save sessions and enable client access to past records

### **INDEPENDENT PROJECTS**

## Portfolio Website - https://github.com/tim-tersigni/timtersigni.com

- Built using HTML, CSS, and JavaScript to demonstrate fundamentals and showcase projects
- Implemented dynamic project gallery, fetching data from a JSON file for easy content updates
- Designed UI from scratch in Figma and translated to code for a user-friendly experience

### **Linux Home Server**

- Installed Ubuntu Server on old computer and connected it to the network accessing it via SSH
- Ran self-hosted services like Plex, Game server, Ad-blocker, and NAS with Docker containers
- Implemented a cloudflare domain and reverse proxy with NGINX to access hosted services

## Emission Omission - https://github.com/Neilio3264/Emission-Omission

- Collaborated with hackathon team of four to program a web application in 48 hours that calculates the carbon emissions of a vehicle's travel between two points using Google Maps API
- Designed website layout using Figma and coded front-end using React, Git, and npm

## **TECHNICAL SKILLS AND OUTSIDE INTERESTS**

**Technical Skills:** Python, JavaScript, Cloud Services, React, Django, SQL, Java, Linux, Git/GitHub, Docker, Agile Methodologies, APIs, C++, TypeScript, MongoDB, HTML/CSS, Networking, Machine Learning, npm, Next.js, pandas, SDLC, Cisco IOS, Windows, TCP/UDP, Photoshop/Illustrator

Interests: Rock Climbing, Music, Video Games, Cooking, Graphic Design