

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 2022

- 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

West Monroe (Position Offered, Delayed, Rescinded) Dallas, TX
Software Engineer Oct 2022 – Oct 2023

- Accepted a Software Engineering position in the Product Experience and Engineering Lab
- Offer was delayed and ultimately rescinded in October of 2023 due to company performance

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 OpenAI 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.js, 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