Tim Tersigni

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Portfolio: **timtersigni.com**

EDUCATION

University of Texas at Dallas   Richardson, TX
Bachelor of Science, Computer Science   May 2023
- Merit Scholarship: UT Dallas Academic Excellence Scholarship

WORK EXPERIENCE

The Carpet Stop   Austin, TX
IT and Sales Assistant   Dec 2018 – Aug 2021
- Managed setup and software installation for computers and connected them to the NAS
- Updated pricing and inventory databases every month increasing efficiency by 25%
- Analyzed blueprints and planned optimal carpet layout to minimize waste and maximize utility

PROJECTS

Nerveli Medical Dashboard - https://www.youtube.com/watch?v=4PQANvC7iZY
- Led team of 6 to develop custom medical dashboard for nerve pain management startup Nerveli
- Directed weekly standups and managed team Trello and GitHub to ensure efficient task completion
- Developed front-end using Next.js, TypeScript, Git, and npm to clearly display patient records
- Created API routes connecting MongoDB database to dashboard prototype hosted on MongoDB Atlas

4 Bit Breadboard ALU - https://www.youtube.com/watch?v=whvLmXYZUJQ
- Created interactive circuit diagram of ALU capable of 10 arithmetic and logic functions using Logisim
- Hand-wired ALU circuit using Texas Instruments' logic gate, flip flop, and multiplexor SN74LS chips
- Proved ALU functionality using spreadsheet to test each operation with randomly generated cases

Client Server Chat - https://www.youtube.com/watch?v=YPdN8_7-mF0
- Designed multi-threaded server program in Python using TCP and UDP protocols to authenticate client connections, manage encrypted chat sessions between users, and handle custom server commands
- Developed chat client program which connects to the server allowing users to send and receive messages
- Wrote chat log system which saves chat session contents to server files which can be requested by clients

Linux Home Server
- Installed Ubuntu Server on old computer and connected it to the network accessing it via SSH
- Ran self-hosted services in containers like Plex, Game server, Ad-blocker, and NAS using Docker
- Implemented a cloudflare domain and reverse proxy with NGINX to access hosted services easily
- Incorporated VPN and proxy using Linode instance and Wireguard to connect from outside the network

Emission Omission - https://github.com/Neilio3264/Emission-Omission
- Collaborated with hackathon team of 4 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

Restaurant Optimization Program - https://github.com/tim-tersigni/Restaurant-Optimization
- Created restaurant simulation using Python to exemplify multithreaded resource allocation
- Modeled optimal restaurant management using semaphores to control shared resources
- Demonstrated deadlock-avoidant programming and efficient multithreading

ADDITIONAL INFORMATION

Technical Skills: C++, Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, npm, React, Next.js, pandas, Machine Learning, Windows, Linux, Git, GitHub, Docker, Photoshop, Illustrator, Networking, Cisco IOS, SDLC
Interests: Rock Climbing, Music, Video Games, Cooking, Graphic Design