Tri Pham

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EDUCATION

California State University, East Bay   Hayward, CA
Bachelor of Science, Computer Science   *Aug. 2022 – May 2024*

De Anza College   Cupertino, CA
Associate in Science, Computer Science   *Sep. 2019 – Aug. 2022*

EXPERIENCE

Lead Rock Band Instructor   November 2022 – Present
San Jose Jazz - Bridges Academy Middle School   *San Jose, CA*

- Introduce middle school students with no experience to the electric/acoustic guitar, bass, piano, and drums
- Prepare customized musical arrangements of popular songs based on student's skill level
- Delegate educating and supervising responsibilities in coordination with teacher assistant
- Rehearse and perform with students for seasonal concerts and school events

Freelance Photographer   August 2023 – Present
Pham Tri Photo   *San Jose, CA*

- Developed a keen eye for design and composition, enhancing the creation of visually appealing web interfaces
- Managed multiple projects simultaneously, delivering high-quality results under tight deadlines
- Worked closely with clients to understand their vision and requirements, translating them into creative solutions
- Utilized advanced photo editing software, demonstrating technical proficiency and attention to detail

PROJECTS

Infinite Ocean | *JavaScript, Three.js, Node.js, Vercel*   November 2023 – December 2023

- Developed an interactive 3D art gallery featuring art and photography using the Three.js library
- Enhanced user engagement with features like day-night transitions, dynamic frame lighting, and audio feedback
- Implemented animations with GSAP for seamless camera transitions, light pulsing, and interactive sun and sky
- Managed real-time canvas selection via raycasting and optimized user controls for intuitive exploration

Music Teacher Admin Dashboard | *Next.js, Tailwind CSS, SQLite*   August 2024 – September 2024

- Developed a comprehensive web application to streamline music lesson management and student progress tracking
- Implemented a SQLite database for efficient storage and retrieval of student information and lesson records
- Created an interactive music note reading quiz to enhance students' sheet music comprehension
- Utilized React for the frontend, ensuring a responsive and intuitive user interface for teachers and students

Smart Mirror | *Raspberry Pi, Python, OpenCV, MagicMirror²*   September 2024 – October 2024

- Engineered a custom smart mirror combining hardware and software components using Raspberry Pi and MagicMirror² framework
- Integrated OpenCV facial recognition with Raspberry Pi camera for personalized user experiences
- Implemented real-time data integration for weather updates, calendar events, and customizable widgets
- Designed and constructed custom wooden frame with two-way mirror, demonstrating cross-disciplinary skills

Rogue Tank Royale | *React, Three.js, TypeScript, Zustand*   March 2025 – April 2025

- Created a 3D tank battle game with React and Three.js, featuring dynamic enemy AI and a shrinking safe zone
- Implemented a state management system using Zustand to handle player stats, upgrades, and game progression
- Designed interactive gameplay mechanics including weapon selection, power-ups, and terrain obstacles
- Optimized real-time rendering and physics for smooth performance across various devices

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML/CSS, Python, C/C++, Java, SQL
Frameworks: React, Next.js, Node.js, Vue.js
Developer Tools: Git, GitHub, VS Code, Cursor, PyCharm, CLion, Eclipse, Vercel, Adobe Lightroom and Photoshop
Libraries: shadcn/ui, Three.js, Vite, pyautogui