

# Tri Pham

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## EDUCATION

### California State University, East Bay

*Bachelor of Science, Computer Science*

Hayward, CA

Aug. 2022 – May 2024

### De Anza College

*Associate in Science, Computer Science*

Cupertino, CA

Sep. 2019 – Aug. 2022

## EXPERIENCE

### Rock Band Instructor

*San Jose Jazz - Bridges Academy Middle School*

November 2022 – Present

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

*Pham Tri Photo*

August 2023 – Present

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, MagicMirror<sup>2</sup>*

September 2024 – October 2024

- Engineered a custom smart mirror combining hardware and software components using Raspberry Pi and MagicMirror<sup>2</sup> 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

### Pokédex React App | *React, JavaScript, CSS, PokéAPI*

July 2024 – August 2024

- Developed a responsive web application to display and interact with Pokémon data using the PokéAPI
- Implemented features such as an interactive grid display, animated sprites, and detailed Pokémon information
- Designed a user-friendly interface with a dark theme and responsive layout for various screen sizes
- Utilized React hooks and components for efficient state management and reusable UI elements

## TECHNICAL SKILLS

**Languages:** JavaScript, HTML/CSS, Python, C/C++, Java, MySQL

**Frameworks:** React, Next.js, Vue.js, Node.js

**Developer Tools:** Git, GitHub, VS Code, Cursor, PyCharm, CLion, Eclipse, Vercel, Adobe Lightroom and Photoshop

**Libraries:** shadcn/ui, Three.js, Vite, pyautogui