

Sonny Box



sonnybox.com



github.com/sonnybox



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EDUCATION

Oregon State University

B.Sc. Computer Science Senior
Specialization in HCI

COURSES

HCI

- Usability Engineering
- Inclusive Design
- Visualization with OpenGL
- Mobile App Development

TypeScript, MySQL, REST APIs

- Cloud Applications Dev.
- Databases (Next.js)
- Web Development (React)

Python

- Analysis of Algorithms
- Computational and Algorithmic Thinking
- AI Algorithms

C/C++, x86 Assembly, Rust

- Data Structures
- Operating Systems
- Computer Architecture

Electron, JEST, Scrum, SDLC

- Software Lifecycle, Project Management
- Software Testing, Verification, Debugging

Psychology Courses

- Cognitive
- Perception
- Social

Organizations

- Photography Society
- Cambodian Student Association

PROFESSIONAL EXPERIENCE

NextTech Consultants LLC — 3 years, ended January 2024

- **Enhanced productivity** by developing an **React Native** mobile application for the company's web-based CRM, improving accessibility and performance
- **Optimized** client support by reducing software troubleshooting turnaround time, allowing increased focus on marketing and customer outreach
- **Managed, redesigned and maintained** client websites across various CMS platforms, serving as webmaster and ensuring seamless user experiences
- **Produced and edited over 100** professional videos and short-form content using Adobe **Premiere Pro** and **Photoshop**
- **Increased social media impressions by 312%**, leveraging platforms like YouTube, Instagram, and LinkedIn to boost marketing efforts, powered by Adobe **Illustrator**

TECHNICAL EXPERIENCE

Portfolio Website — sonnybox.com

- **NGINX** was used as a backend server, with **PHP**, **Bun**, and a **MariaDB/MySQL** database to handle dynamic content and data management
- **Arch Linux** was used to self host 100% of the website
- **Next.js** is the framework I choose for my website as I believe it is one of the best around and very easy to use
- **TailwindCSS** is the **CSS** framework I choose to use as it is extremely fast with a JIT compiler and it is easy to use

Latent Diffusion Pipeline with 🤖 Diffusers — private project

- **Goal** is to study in-depth into the architecture and mechanics of Latent Diffusion Models, i.e. **Stable Diffusion** and **Flux.1-dev**
- Utilized **PyTorch** as the primary deep learning library for efficient tensor-based ops, which is an industry standard
- Developed a **Flask**-based API and web server to facilitate seamless backend integration and communication.
- Built a **React**-powered front-end interface, enabling UI for txt2img, img2img, and AI upscaling features