

Trevor Nichols

Contact

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01/02/2006

Career Object

Detail-oriented professional with experience in software development, API endpoint design and implementation, AI training and frontend design. Deep understanding in backend integration with Microsoft Azure, GitHub actions, and Nix CI/CD. Extensive experience in modeling, animating, and texturing 3D models for commercial purposes. Praised for creative problem-solving, meticulousness, and technical depth. Excels at the integration of computer programming and art.

Skills

7+ years	6 years	4 years	3 years
<ul style="list-style-type: none">• Linux• Docker• Podman• Docker Compose• Systemd• Excel• Word• Powerpoint	<ul style="list-style-type: none">• Node.js• JS/TS• Github Actions• Java• Nix• C#• HTML• CSS• Python	<ul style="list-style-type: none">• MD Docs• QEMU	<ul style="list-style-type: none">• .NET• Azure• Microsoft Server• Ubiquiti Unifi• Docker Swarm

Personal Experience

3D Modeler

Nov 2022 - Aug 2023

Sandm. Creative Agency | Georgetown, Penang, Malaysia

- Utilized **GIMP, Inkscape, Illustrator, Photoshop**
 - **Created textures** for 3D models
 - **Generated** bump, metalness, emission maps
- Utilized **Blender**
 - **Modeled** hard surfaces including products, environments, packaging, and buildings
 - **Sculpted** detailed natural shapes whilst maintaining a low poly count
 - Utilized **physics simulations** to animate clothes, smoke, softbodies, and destruction
 - Retopologized models to be **game and animation ready**
 - Highly experienced at **generative geometry**, textures, and lighting
- Led over 50% of 3D design and modelling projects for the company

IT Technician / Programmer Intern

Aug 2022 - Aug 2023

Dalat International School | Tanjung Bungah, Penang, Malaysia

- **Developed backend and frontend software** for identification services including UX design in Aurelia, backend implementation in C#, .NET, Azure functions, and SQL.
- **Developed inventory management systems** for all equipment within several organization's physical and network environments
- In depth knowledge of **Unifi** network management software to manage and maintain a private network

Audio Visual Technician

Aug 2020 - Aug 2023

Penang Bible Church | Georgetown, Penang, Malaysia

- **Custom designed an AV system** within the restrictions of a space, needs, and budget
- **Developed preventative measures** to maintain audiovisual systems to reduce breakdowns or malfunctions by over 65%
- **Orchestrated livestreams** and live audio processing for events
- **Designed custom cables** for streamlining connections within an AV system

Open Source contributor

Contributed to

- NixOS/nixpkgs
- tnichols217/obsidian-columns 200+ stars, 40k+ downloads (creator)
- denolehov/obsidian-git

Audio Visual Technician

Sep 2023 - Ongoing

MediaVision | Cleveland, OH, USA

- **Maintained classroom technologies** including both audio and visual systems
- **Facilitated classroom recordings**

Facility Assistant

Oct 2023 - Ongoing

Tinkham Veale University Center | Cleveland, OH, USA

- **Worked on small and large teams** to prepare the venue for small and large events

Research Contributor

Sep 2024 - Ongoing

AI4EDU | Cleveland, OH, USA

- **Built REST backend services** for our AI chatbot using fastAPI
- **Built and maintained databases** using PostgreSQL
- **Developed workflows and CI/CD** using GitHub workflows to speed up delivery of our product

Education

Case Western Reserve University

Aug 2023 - May 2027

Bachelor of Science (B.S.) in Computer Science Candidate

Sec. Bachelors in Data Science, Computer Engineering, Electrical Engineering
Cleveland, OH, US

Senior Status, GPA 3.805

- Questbridge scholar
- University merit-based scholar
- Dean's High Honors x2

Studied in

- Artificial Intelligence
- Systems Programming
- Theoretical Statistics
- Hardware Logic Design
- Algorithms
- Database Systems

Participated in

- The Fraternity of Theta Chi - Brother since 2024
- CWRUnix (Case Linux Club) - Honorary exec member
- The Board Meeting - Active Member

Dalat International School

Aug 2022 - Aug 2023

High School Diploma with Summa Cum Laude

Penang, Malaysia

GPA: 3.8642

Studied in

- 5: AP Computer Science A
- 5: AP Computer Science Principles
- 5: AP 3D Art and Design
- 5: AP Statistics
- 5: AP Calculus BC
- 5: AP Biology
- 5: AP Physics I
- 4: AP Music Theory