

# Trevor Nichols

## Contact

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Cleveland, OH 11447  
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

- Linux
- Docker
- Podman
- Docker Compose
- Systemd
- Excel
- Word
- Powerpoint

### 6 years

- Node.js
- JS/TS
- Github Actions
- Java
- Nix
- C#
- HTML
- CSS
- Python

### 4 years

- MD Docs
- QEMU

### 3 years

- .NET
- Azure
- Microsoft Server
- Ubiquiti Unifi
- Docker Swarm

## Personal Experience

### Research Contributor

Sep 2024 - Ongoing

AI4EDU | Cleveland, OH, USA

- **Built REST backend services** for our AI chatbot using fastAPI
- **Led a team** maintaining and updating the backend while following good coding practice
- **Built and maintained databases** using PostgreSQL
- **Developed workflows and CI/CD** using GitHub workflows to speed up delivery of our product

### 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

### Audio Visual Technician

Sep 2023 - Ongoing

MediaVision | Cleveland, OH, USA

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

- **Facilitated classroom recordings**

## Open Source Contributor

Aug 2022 - Ongoing

### Contributed to

- NixOS/nixpkgs 19.3k stars
- tnichols217/obsidian-columns 200+ stars, 40k+ downloads (creator)
- Vinzent03/obsidian-git 7.3k stars

## 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

## 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

## 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

## 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 - Scholarship Chair 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