Trevor Nichols

Contact

Career Object

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github.com/tnichols217

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
• Linux	Node.js	MD Docs	• .NET
 Docker 	• JS/TS	QEMU	Azure
 Podman 	 Github Actions 		 Microsoft Server
 Docker Compose 	Java		 Ubiquiti Unifi
 Systemd 	Nix		Docker Swarm
Excel	• C#		Quarto
Word	• HTML		
 Powerpoint 	• CSS		
	Python		

Personal Experience

Research Contributor - Software Engineer

Sep 2024 - Ongoing

AI4EDU | Cleveland, OH, USA

- Built REST backend services for our AI chatbot using fastAPI
 - o Integrating with multiple APIs including OpenAI, Anthropic, and Claude
 - Serves 2 research teams and 5+ classes on campus for over 100 people
 - Provides custom RAG and file access for models for individual teams and groups
- **Led the backend team** of 4 people
 - Enforced good coding practices and styles
 - Review and provide feedback on 100% of code changes
 - Led and implemented over 7 major features
- Built and maintained databases using PostgreSQL, DynamoDB, and Pinecone
 - Designed the database schema
 - Maintained and created database migrations
 - Maintain interfaces for various languages across the project

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- Developed workflows and CI/CD using GitHub workflows to speed up delivery of our product
 - Sped up deployment times by over 75%
 - Created automated PR testing and checks, increasing team efficiency

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

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- 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

Masters and Bachelors of Science (M.S./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 and Assistant Treasurer 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

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