

William "Chase" Culbertson

Seattle, WA | explodingcb.com | github.com/Sculptor-AI

Computer engineering student who has spent two years running production LLM infrastructure on bare metal: an on-prem inference platform serving 600+ users, with multi-model routing, fine-tuned models, tool integrations, and usage analytics.

EDUCATION

B.S., Computer Engineering · Purdue University	Fall 2026 to 2030
High School Diploma · Lakeside School, Seattle, WA	Graduated May 2026

EXPERIENCE

Co-Founder & Backend Lead · Project Andromeda	Jun 2024 to Jun 2026
Lakeside School, Seattle, WA	

- On-prem LLM inference platform, now serving 600+ users across the school.
- Made the technical case for buying GPUs over subscriptions and got a **\$12,000 hardware budget** approved by the Head of School. The commercial subscription path priced out near **\$600K/year**.
 - Built the backend: multi-model routing, per-user authentication, usage analytics, and tool integrations including WolframAlpha and citation lookup.
 - Ran a phased rollout that doubled the user base every three weeks under capacity monitoring, from 25 pilot accounts to full Upper School availability.
 - Fine-tuned models against specific course rubrics, including an essay-feedback model built with an English teacher and piloted in her sections.
 - Migrated the platform off OpenWebUI onto a custom React/Node stack after hitting limits in RAG quality and per-group model permissions.

Researcher · Google TPU Research Cloud	2025 to Present
Remote	
• Training a diffusion language model on granted TPU capacity, based on Google DeepMind's DiffusionGemma.	

Co-Founder & Lead Model Developer · SculptorAI	2023 to Present
Remote · Open-source AI research group	
• Trained and released the Ursa model family on HuggingFace.	
• Lead developer on aiportal , the multi-model chat platform now serving Andromeda. MIT licensed, ~470 commits. github.com/Sculptor-AI/aiportal	

Co-Founder & Technical Director · Xenon Hosting	2019 to Present
Remote	
• Built the full stack for a game-server hosting company: custom control panel, automated provisioning, billing, and client management.	
• Currently converting the company into a nonprofit that provides compute grants.	

Infrastructure Intern · Lakeside School Technology Dept.	Summer 2022-2025
Seattle, WA	
• Campus device deployment and network printer infrastructure, plus the early groundwork for the school's AI access program.	

TECHNICAL SKILLS

Infrastructure	Linux, Docker, on-prem GPU servers, networking, vLLM, Ollama, TPU/XLA
ML	PyTorch, JAX, HuggingFace Transformers, fine-tuning, distillation, RAG, evaluation
Software	Python, Swift, JavaScript/Node, React, C++, Java, SQL, PostgreSQL, MongoDB, Git

PRESS

- "The Andromeda Project." *Lakeside Magazine*, Spring/Summer 2025. Feature, pp. 20-21.
- "A Follow-Up on Andromeda AI." *Tatler*, 2025.
- "AI Enters the Classroom: Grotto Interns Pioneer Lakeside's First AI." *Tatler*, 2024.

OTHER

Eagle Scout with three palms, Boy Scouts of America. Eagle project delivered technology-literacy and scam-awareness training for older adults. Guitar, 8 years. Conversational Spanish.