

Caden S. Turnquest

Computer Science Student · AI & Machine Learning Enthusiast · Software Developer

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PROFESSIONAL SUMMARY

Computer Science student at the University of South Dakota concentrating in Artificial Intelligence, with a Sociology minor. Experience spanning machine-learning research, software and web development, and data analytics, plus a self-directed portfolio of six full-stack concept projects and two forthcoming books on college success.

EDUCATION

University of South Dakota — B.S. Computer Science, Artificial Intelligence Concentration; Minor in Sociology Expected May 2028
Junior

NGM Major High School — High School Diploma 2024

RESEARCH EXPERIENCE

Advanced Deep Learning Research Assistant Mar – May 2026
Supervisor: Dr. Wang Longwei

- Studied three prototype-based, interpretable deep-learning systems — ProtoPNet, TesNet, and ProtoPool — including their papers, architectures, source code, and training pipelines
- Wrote technical research reports on prototype-based and explainable/interpretable AI, including differentiable prototype assignment
- Reproduced and trained the ProtoPool model in PyTorch from the project's public repository, with modifications

Undergraduate Researcher — Predicting Habit Formation & Maintenance in College Students 2026, ongoing
Supervisor: Dr. Isaiah Cohen · Presented at IdeaFest 2026

- Contributing to literature review, survey design, and planning of ML models (logistic regression, decision tree, random forest) predicting habit adherence from behavioral and psychological signals

SELECTED TECHNICAL PROJECTS

Gerald's Precision Cuts
HTML5 · CSS3 · JavaScript
Barbershop concept — booking flow, gallery, pricing

Azure Tide Excursions
HTML · CSS · JavaScript
Tourism concept — bookings, gallery, testimonials

Coastal Crown Builders
Next.js 14 · TypeScript · Framer Motion
Construction concept — multi-page marketing site

All concept/portfolio builds, not client engagements · cbunlimiteddigital.com/projects

242 Punching Strong Boxing Gym
HTML · CSS · JavaScript
Fitness concept — membership tiers, prototype checkout

Island Torque Auto Parts
Vite · React 18 · Tailwind
Automotive inventory concept — filterable SKUs, compatibility

Crab Dough Pot Restaurant
HTML · CSS · JavaScript
Restaurant concept — ordering UI, delivery-radius checker

TECHNICAL TOOLKIT

LANGUAGES	Python, Java, C++, JavaScript, HTML, CSS, SQL
FRAMEWORKS	React, Next.js, Tailwind CSS, Flask, PyTorch, TensorFlow
DATABASES	MySQL, PostgreSQL
TOOLS	Git, GitHub, VS Code, Cursor
AI TOOLS	ChatGPT, Claude, Gemini, GitHub Copilot
DEPLOYMENT	Netlify, Cloudflare, Vercel, Namecheap

CERTIFICATION

Google Data Analytics Professional Certificate Aug 2025
Google / Coursera · 8-course program: spreadsheets, SQL, Tableau, R, data cleaning & visualization

PROFESSIONAL EXPERIENCE

Parking Attendant Sep 2024 – Present
University of South Dakota · Sanford Coyote Sports Center

Commercial Sponge Harvesting & Diving Seasonal
Jun–Aug 2025 · May–Aug 2026

LEADERSHIP

Founder & President, NGM Major High School Chess Club

- Founded and led the school's chess club
- Won the deciding match by checkmate in an 11-vs-11 school competition, securing the overall team win