Avon Budhathoki

First-principles problem solver. B.S. Computer Science, Texas State University (2027)

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Hands-on Computer Science student at Texas State University (A.S. in CS, San Jacinto College, Dec 2025) with a lifelong record of solving technical problems, from bare-metal hardware and network diagnostics up to PostgreSQL data validation (OptWeb), multi-platform software QA (Medusa) and generative AI workflows (onboarding 100+ students into Gemini and Claude).

Skills

Languages and core dev	Python, C++, Java, SQL (PostgreSQL / Supabase), JavaScript, HTML/CSS, Linux (Ubuntu/Debian), Git and GitHub workflows
AI and agentic stack	Gemini API, Claude and Model Context Protocol (MCP) workflows, Supabase pgvector, LangChain, local LLM setup, Vercel, Bolt.new
Data and quality engineering	PostgreSQL schema validation, file-parsing verification (OptWeb), multi-platform regression and state-sync QA (Medusa), GitHub Issues
Hardware and systems roots	Component-level PC and PCB repair (70+ setups), network / DNS troubleshooting, Windows / macOS / Linux helpdesk (15–20+ tickets per shift)

Experience

Data validation and multi-platform QA contributor, OptWeb and Medusa 2025 – present
Designed workflows to validate complex file parsing and test PostgreSQL / Supabase schemas on OptWeb; cloned dev branches via Git to isolate state-handling bugs and logged 20+ reproducible defects on Medusa.

Generative AI evangelist and community mentor May 2025 – present
Onboarded 100+ students into the Gemini app, Gemini API and Claude workflows; ran prompt engineering and code debugging workshops.

Independent technical consultant and hardware repair specialist Jan 2023 – present
End-to-end computer hardware repair, PCB diagnostics, network troubleshooting, and C++ / Java / Python backup automation across 70+ client setups.

IT helpdesk support specialist, University of Wisconsin-Superior Sept 2022 – May 2023
Resolved 15–20+ hardware, OS (Windows / macOS), MFA / SSO and network tickets per shift for students and faculty under FERPA rules.

Projects

OptWeb (shipped). Automated web, SEO and PostgreSQL validation engine
Medusa (shipped). Gamified focus and real-time productivity platform
AegisMCP (shipped). Self-healing endpoint and DevOps diagnostic agent
VeriPipe (shipped). Agentic data quality and SQL hallucination firewall
TraceZero (shipped). Local-first hardware, network and packet copilot

Education

Texas State University, San Marcos, TX. B.S. in Computer Science, expected 2027. Coursework: Data Structures, OOP (C++ / Java), Systems Programming, Computer Architecture, Network Management, AI Development, Computer Ethics.

San Jacinto College, Houston, TX. A.S. in Computer Science, December 2025

University of Wisconsin-Superior. Computer Science coursework, 2022 – 2023. Also worked the campus IT helpdesk.

Leadership and interests

Founder and student lead, Texas State Pickleball Organization (March 2026 to present). Weightlifting, long-distance running, backcountry hiking (Guadalupe Mountains route coordinator), competitive pickleball.