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Aidan Levy

Education

2023–Present **B.S. in Computer Science (AI Focus) & Data Science**, *Salisbury University*, MD, Clarke Honors College

Relevant Coursework: Advanced Data Structures and Algorithms, High Performance Computing, Linear Algebra, Introduction to Convolutional Neural Networks

GPA: 3.95 — SUBJJ Club President & Founder — Cybersecurity Club — Student Researcher

Experience

2024–Present **Network Engineer Intern**, *Salisbury University*

- Provide ticket-based support, troubleshooting, networking issues, patching cables, and identifying the root cause of connection failures.
- Responsible for maintenance, upgrading, and provisioning of 200+ Aruba-635 wireless access points.

2024–Present **Computer Lab Assistant**, *Salisbury University*

- Assisted 100+ students in COSC-220 and COSC-117 with understanding the fundamental programming concepts and debugging their code during lab sessions.
- Provided guidance on logic, syntax, and problem solving strategies to reinforce course material during lab and during weekly office hours.

2023–Present **Founder & Instructor**, *Padawan Jiu Jitsu*

- Founded and operate a brazilian jiu jitsu training business serving 50+ clients, managing all aspects including marketing, operations, client relations, and finances.
- Built and maintained an online presence to expand outreach and manage client engagement.

Projects

OpenMPI Linear Algebra Heavily optimized matrix operations using C with OpenMPI for parallel matrix computations. Focused on matrix multiplication, RREF, and LU decomposition. The project explores distributed memory models to maximize performance. These optimizations support high efficiency algorithms used in linear programming and operations research.

SalisburyDSP Developed a research project that implements audio filters in Python using DSP libraries. Frequency domain transformations are visualized via a custom JavaScript and D3.js frontend. The web interface allows users to input YouTube links, apply audio effects, and download processed audio. Backend functionality is handled using Flask.

ByteScatter A secure multi-cloud file distribution system built for fault tolerance and zero knowledge data protection. ByteScatter uses AES-256-GCM and ChaCha20-Poly1305 encryption with a local metadata database for retrieval. Won 2nd place in Cybersecurity at the HenHacks hackathon.

Skills

Programming Languages: Python, C++, C, JavaScript, Java, Bash, HTML, CSS

Tools: OpenMPI, OpenMP, PyTorch, scikit-learn, TensorFlow, Numpy, Flask, React, Git

Extracurricular Activities

2023–Present President & Founder of Salisbury University Brazilian Jiu-Jitsu Club

2015–Present Brazilian Jiu Jitsu Brown Belt