AMARNATH S. PATEL

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EDUCATION

Florida Atlantic University   **3.65 GPA**

Computer Science coursework - High School Diploma   August 2021 - May 2025

- Embedded Systems, UNIX & UNIX likes, Web Development, AI/LLMS, interest in OS dev & quantum computing
- Relevant Coursework: Data Structures and Algorithms, Computer Logic Design, Matrix Theory, C & C++ programming, Deep Learning, Computer Architecture

SKILLS

Programming: C/C++, Nix, Rust, Zig, Go, JavaScript, HTML/CSS, Shell (Fish Bash tcsh)

Tools: NeoVim, Docker, Git, AI-LLMs, Rustup, CMake, Nix, Zig

Operating Systems: Linux Distributions, BSD, Windows, Proxmox, OpenSolaris

PROFESSIONAL EXPERIENCE

Learning Assistant - Employee   August 2024 - May 2025

- Assisted numerous undergraduate students with learning calculus. Part-time job (10h a week).

Advanced Experimental Vehicles - Programmer, Leader, Builder   November 2023 - May 2025

- Raspberry Pi 5 used as an embedded device in making a full Electron app to monitor and control a built-from-scratch solar car. Esque to your car's screen + speedometer
- Won 2nd Place in Division, and Lockheed Martin Award for "Highest Level of Engineering Excellence"

FAU High-School Coding Club - Leader   August 2023 - May 2025

- Founded a High School's coding club, providing leadership experience, along with management.
- Building a robotic dog, similar to Boston Dynamics robotics, weather stations, and drones.

Chameleon - Programmer - HPC User   January 2024 - March 2025

- Building an AI/LLM powered research project for writing, grant funded by Florida Atlantic University. The university provided us access to their own HPC to train models upon (user).

PROJECTS

UniUtils   October 2023 - November 2024

- Tool for students to generate a schedule for their semester based on multiple parameters, along with an ability for students to find classrooms on campus to study and get work done in.
- 1st Place in the Night Hacks 2023 hackathon & submitted in ShellHacks, JS HTML CSS

limebar   December 2024 - March 2025

- A Wayland graphical status bar that takes input directly from STDIN. Uses pango for font rendering and cairo for graphics along with xdg-shell-client protocol and wlr-layer-shell-unstable.

aocli   December 2023 - ad infinitum

- My Advent of Code solutions, including a custom written C++ CLI tool to let me retrieve puzzle inputs, view problems, and submit answers from the terminal, available publicly for download. Uses libcurl for web requests and gumbo-parser by Google for converting html to plaintext.