Dimitris Angelis

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Profile

Self-taught full-stack developer and system programmer with strong foundations in algorithms, cybersecurity, and robotics. Passionate about building efficient, capable systems and custom tools. Known for thriving in high-pressure, collaborative environments such as hackathons and research-driven development.

Skills

- **Languages**: Rust, C++, Python, JavaScript, TypeScript, Java
- **Frameworks**: React, Tailwind , Next.js

Projects

Nova – Offline AI Assistant   *Python, Vosk, Piper, LLMs*
Built a virtual voice assistant using local models for speech-to-text, sentiment analysis, and system monitoring. Modular design with offline privacy and extensibility in mind.

Rusty – Chat App   *Rust, Axum, PostgreSQL, Next.js*
Designed and implemented a full-stack chat app with WebSockets, authentication, DM/room support, and a scalable schema for messages, users, and relationships.

Skiphuff - Compression Engine   *C++, Skiplists, Huffman, Binary I/O*
Built a custom lossless binary compression tool from scratch using tokenization, Huffman encoding, and skiplist-based tree construction. Implemented a custom file format with headers, encoded symbols, and optimized binary writes for compact storage.

NetWatch – Terminal Packet Sniffer   *Python, Scapy, Curses*
Custom-built CLI tool to capture, analyze, and log TCP/UDP/ICMP traffic with real-time dashboard and CSV/PCAP export. Detects port scans and suspicious behavior.

Stock Sentiment Analyzer   *Python, Selenium, FinBERT*
Scrapes financial news headlines, runs sentiment analysis using FinBERT, and outputs trading signals. Fully offline-compatible model pipeline.

Experience

Research Assistant Intern – FORTH Institute   *Heraklion, Greece — 2023*
Worked on concurrency and algorithm analysis in an academic setting. Gained experience with low-level programming and research publication processes.

Vice President & Programming Lead – Robotics Club   *2022–2023*
Led a team of developers in robotics software projects. Built core infrastructure and mentored junior members.

Education

Hellenic Mediterranean University (Dropped out)
BSc in Electrical and Electronics Engineering — Completed 32 out of 40 courses

Certifications & Study (In Progress)

- CompTIA A+ (220-1201, 1202)
- Hack The Box CPTS