Sree Varshan V

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SUMMARY

AI and ML undergraduate Computer Science student with experience in Rust, Python, JavaScript, machine learning, and full-stack development. Built systems, AI-powered, and embedded projects across remote desktop and device ecosystems, trip planning, coding assistance, research automation, and accessibility tech.

PROJECTS

Pocketdesk: Open-Source Remote Desktop and Device Ecosystem github.com/sreevarshan-xenoz/Pocketdesk

- Built an open-source remote desktop in Rust and Kotlin that lets you see and control a Linux or Windows computer from an Android phone or another computer, with low-latency hardware-encoded video.
- Added KDE Connect-style features: clipboard and file sharing, phone notifications on the computer, the phone as a webcam or second screen, and one keyboard and mouse across computers.
- Cut input lag over Wi-Fi from about 25 ms to 3 ms; it connects across networks with no port forwarding or account, and ships for Arch Linux (AUR), Debian, and Windows.

Research Agent: Multi-step AI Research System github.com/sreevarshan-xenoz/Research-agent

- Built a Python research assistant (LangGraph) that splits a topic into sub-tasks, gathers sources, and writes a structured report, with a reviewer step that re-checks weak findings.
- Added citation checking and export to LaTeX in IEEE and ACM formats.

EV Qonnect: AI-Powered EV Trip Planner

- Built an EV trip planner that suggests routes based on battery level and lets drivers find and book chargers.
- Developed a Next.js portal for station owners and a Kotlin Android app for drivers.

xencode: Local-First AI Coding Agent github.com/sreevarshan-xenoz/xencode

- Built a terminal-based AI coding agent in Rust that runs on local models (Ollama, llama.cpp) or cloud APIs, keeping code on the user's machine.
- The agent plans, edits, and tests code and asks for approval before every change; it also works inside the Zed editor.

Braille Keypad for Visually Impaired Users

- Built an ESP32-based Bluetooth Braille keyboard that lets users type, control media, and navigate smartphones using chord combinations.

WORK EXPERIENCE

Intern, Supraja Technologies Jul 2024 – Aug 2024
Chennai, India

- Performed vulnerability assessments and simulated threat detection for cybersecurity audits.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Rust, Kotlin
Web: React, Next.js, Node.js
Systems & Networking: Linux, Wayland, PipeWire, QUIC, TLS, FFmpeg and hardware video encoding
Cloud & DevOps: AWS, Docker, GitHub Actions
AI/LLM Frameworks: LangChain, LangGraph
Tools: Git, GitHub, Vercel

EDUCATION

B.Tech in Computer Science Engineering (AI & ML) 2023 – Present
SRM Institute of Science and Technology, Ramapuram CGPA: 8.88/10

OPEN SOURCE CONTRIBUTIONS

- **hol-guard** (1k+ stars, an open-source firewall for AI agents): added a command-safety extension for xencode (merged).
- **FloBlur** and **Tappy**: rewrote the READMEs and added contributing and security guides (merged).
- **Pocketdesk**: maintain its AUR package and submitted it to the Windows Package Manager (winget).

HACKATHONS

- Competed in 17+ hackathons, including the Razorpay Buildathon (LedgerMind, an AI finance-ops agent).
- 3rd place, Ceronix 24-Hour Hackathon, Eswari Engineering College.
- 3rd place, SARAM'26 Project Day, Edge Computing and Embedded AI track (Braille Keypad).