

EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	Computer Science & Engineering	PES University	2023-Present	9.00
HSC TSBIE	Physics, Chemistry, & Mathematics	Turito College	2021-2022	8.76
SSC CBSE	-	Silver Oaks	2010-2020	8.9

TECHNICAL SKILLS

- **Languages:** Python, C, Go, JavaScript, Rust, SQL, Bash, Assembly (Beginner), Verilog (Beginner)
- **Frameworks & Tools:** React, Node.js, MongoDB, Git, Linux, VS Code, Postman, Arduino IDE

WORK EXPERIENCE

- **Software Intern** [Banyan Intelligence] June-July 2025
 - Built and integrated **Google Drive, Calendar, and Fireflies MCP servers** with custom tools for event fetching, meeting analytics, and transcript-based insights; connected these with **LangChain agents** for seamless querying and automation.
 - Designed and executed **end-to-end testing and validation workflows**, including agent-tool interaction testing, server performance checks, and iterative debugging for production-grade reliability.

PROJECTS

- **NekoOS — Minimal x86 Operating System** Apr-May 2025
 - Developed a 32-bit x86 OS from scratch in C and Assembly, featuring a custom bootloader, VGA text output, keyboard input, and a PIT-based timer, showcasing low-level systems programming without external OS dependencies.
- **sCurl — Barebones cURL Alternative** Jul-Jul 2025
 - Developed a minimalist HTTP/1.1 client in Rust using raw TCP sockets, manually handling request construction, response parsing, custom headers, and basic HTTP methods without external libraries.
- **ShadowExec — Secure Remote Command Execution System (Python)** Apr-May 2025
 - Built a secure Python-based remote command execution system with RSA key exchange, AES-encrypted UDP communication, Tkinter GUI client, and CSV-based user login.
- **LeetCode Backend** Oct-Nov 2024
 - A backend system implemented in Go that mimics LeetCode's problem-solving and submission functionalities. Supports user authentication, code execution, and performance tracking.
- **QuickBang — Search Tool with Bang Shortcuts** Dec-Jan 2024
 - Built a lightweight search interface in JavaScript/React supporting custom `!bang` shortcuts, drop-down suggestions, keyboard navigation, and localStorage caching.
- **Bash-PassMgr — Local AES-256 Encrypted Password Manager** Mar-Mar 2025
 - Designed and implemented a CLI password manager in Bash using OpenSSL for AES-256 encryption. A local credentials storage system with encryption/decryption routines, ensuring no third-party or cloud dependency.

ACHIEVEMENTS

- **Awarded CNR Scholarship for academic excellence (Semesters 1–3)**

POSITIONS OF RESPONSIBILITY

- **Logistics Team Member – Maaya PES University** Oct-Nov 2024
 - Assisted in organizing and managing logistics for the university's annual Maaya event, ensuring smooth coordination of resources, schedules, and event operations.

EXTRA-CURRICULAR ACTIVITIES

- **Hobbies:** Badminton, Guitar, Swimming, Drawing,