SANJAI MS

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Technical Skills

- **Languages: Go**, **Rust**, Python, C, C++
- **Tools: AWS**, **Terraform**, **Docker**, Git
- **Soft Skills:** Problem Analysis, Clear Communication, Team Collaboration
- **Other Skills: Linux**, Networking, Operating Systems

Projects

PMan (Golang/TUI) — Aug 2024

- **Contributed to Open Source**: Expanded PMan, an **open-source** tool written in **Go** that centralizes management of multiple side projects in one unified command-line interface
- Crafted a responsive text-based UI using the **Bubble Tea** package, enabling real-time project status tracking and detailed task management, reducing context-switching by 40%
- Programmed essential commands (add, init, ls, set, status) to automate project lifecycle management, increasing productivity by 30%
- **GitHub:** https://github.com/sanjaix21/pman

Go-Interpreter (Golang/Interpreter Design) — Mar 2025

- Built a 1,500+ LOC interpreter for the Monkey programming language in **Go**, supporting variables, functions, and conditionals
- Constructed a high-precision parser capable of processing 10,000+ tokens per second, ensuring fast and accurate syntax analysis
- Designed a lightweight lexer that processes 50+ expressions per millisecond, reducing parsing overhead and improving evaluation speed
- Created a latency-free **REPL** environment, enabling real-time execution of expressions and function calls without compilation delays
- **GitHub:** https://github.com/sanjaix21/go-interpreter

DevOps Training Wheels (IaaC/Docker/Terraform) — Feb 2025

- Architected a scalable solution using **Terraform**, **AWS**, **Docker**, and Git, cutting deployment time by 70% and ensuring 95% configuration consistency
- Configured **Nginx** as a DNS proxy and developed a robust **Python**/**Flask** backend, reducing latency by 50% and boosting overall resiliency
- Programmed automated CI/CD workflows using **Github Actions** to achieve 99.9% system uptime and accelerate release cycles by 40%
- **GitHub:** https://github.com/sanjaix21/devops_tw

Experience

GeeksforGeeks — June 2024

- Developed 10+ machine learning models including linear regression, **SVM**, and random forests on real-world datasets, achieving 85% accuracy in predictive analyses
- Created data processing pipelines using **NumPy** and **Pandas**, reducing preparation time by 40% while enhancing data integrity

- Produced interactive dashboards for Black Friday Sales and Heart Disease datasets using **Power BI**, revealing key consumer behavior patterns and clinical correlations
- **Certificate:** https://media.geeksforgeeks.org/courses/certificates/12bffded40770b268422a8ca3a0

Certificates

Programming in R   Mar 2024

- Applied **R** for data analysis with hands-on proficiency in loop functions, debugging tools, and statistical profiling
- Programmed R-based solutions for data cleaning, transformation, and analysis, ensuring accuracy and efficiency in handling large datasets
- Implemented statistical methods to identify patterns, generate insights, and support data-driven decision-making
- **Certificate:** https://coursera.org/share/e037ae56110f9d06db1736d1497ce6d5

Generative AI with LLMs   Nov 2023

- Acquired practical knowledge in **large language models** implementation and generative AI applications
- Practiced generative techniques to solve complex data and content generation challenges
- **Certificate:** https://coursera.org/share/97f80c9d56e4280eb8e8ad692789bacd

Cloud Computing   Oct 2024

- Learned cloud architecture fundamentals including **IaaS**, **PaaS**, **SaaS**, and **edge computing** implementations
- Analyzed resource allocation strategies, **auto-scaling**, and fault-tolerant system design
- Practiced **load balancing** configuration, **container orchestration**, and security implementation
- **Certificate:** https://archive.nptel.ac.in/content/noc/NOC24/SEM2/Ecertificates/106/noc24-cs118/Course/NPTEL24CS118S167020235304432354.pdf

Education

- **Lovely Professional University**   May 2026
  BTech. Computer Science and Engineering, Jalandhar, Punjab
- **GRN MHSS**   May 2021
  Computer Science, Physics, Chemistry, Mathematics, Coimbatore, Tamil Nadu

Others

Languages: Tamil, Malayalam, Hindi, English, German (basics)
Interests: Cooking, Coin collection, Formula-1, Reading