Hemant Bhandari

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Education

Chandigarh University   Aug 2021 – (Expected) May 2025
Bachelor of Engineering, Computer Science; CGPA: 7.84

St. Thomas School, Indirapuram   2020 - 2021
Class 12, CBSE, PCM with CS; Grade: 84.8%

Certifications & Exams

GATE 2025 - Qualified
Qualified with All India Rank (AIR) **19074** in the Gate 2025 Computer Science and Information Technology exam.

Experience

Research Intern   Jun 2023 – Jul 2023
MARS Lab, Department of CSE, IIT Guwahati
- o Implementation and analysis of security wrapper module for Network-on-Chip routers.
- o Learned to use Gem5 – architectural simulator – to explore various existing solutions in the domain of multi-core computer architecture.

Freelance Programmer   Dec 2021 – Feb 2022
Fiverr
- o Worked with APIs of various social media platforms such as Reddit, Discord.
- o Delivered chat bots with functionality ranging from community management to moderation.

Projects

The Generic Operating System (tgos)   March 2025
A linux from scratch project for building an operating system based on the linux kernel.

github.com/laughingclouds/tgos
- - Used an existing linux based operating system to essential tools for creating bootable ISO.
- - Customized the build process to include only necessary components, improving boot time and reducing image size.
- - **Technologies Used**: Bash, Git, GCC, Make, Windows Hypervisor

MonkeyGo (Programming Language)   March 2024
An interpreter for the Monkey programming language, implemented in Go, inspired by Writing an Interpreter in Go by Thorsten Ball.

github.com/laughingclouds/monkeygo
- - Built a complete lexer, parser, and evaluator for a dynamically typed scripting language.
- - Implemented first-class functions, closures, arrays, hash maps, and a REPL interface.
- - **Technologies Used**: Go, Git, VS Code, Terminal, Recursive Descent Parsing

Skills Summary

Languages:	Python, C/C++, Java, JavaScript
Frameworks:	flask, react, gem5
Tools:	Bash, Shell, Scripting, Git, GitHub, Docker, GitLab
Platforms:	Linux, WSL, Visual Studio Code, Intellij IDEA
Frameworks:	flask, react, gem5
DBMS:	MySQL, PostgreSQL, SQLite