BURHANUDDIN

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EDUCATION

Bachelor of Technology in Computer Science and Engineering Aug 2020 – May 2024
Rajasthan Technical University (Techno India NJR Institute), India
GPA: 9.4 / 10 (First Division with Distinction)
Relevant Coursework: Operating Systems, Computer Networks, Compilers, Theory of Computation, Database Systems, Object-Oriented Software Engineering, Data Structures & Algorithms

EXPERIENCE

Software Engineer – Systems & CAD Automation Aug 2026 – Present
Salvage Filtration System Pvt. Ltd. | *Udaipur, India*

- Developing an in-house text-to-CAD automation system that parses natural language prompts into verified 3D SolidWorks parts and assemblies.
- Designed the pipeline so AI outputs structured schemas rather than executable code; a local Python engine evaluates geometry deterministically without hallucinations or security risks.
- Architected the system into 3 isolated engines—Part/Assembly Drawing, File Restructuring, and Fabrication Output—each guarded by process watchdogs recovering frozen COM calls in ∼0.14s (a 97% downtime reduction).
- Automated industrial tank manufacturing workflows, cutting token consumption by 75% and drafting turnaround by 85% to generate a 39-component assembly and 4-sheet, 67-item drawing in under 16 minutes.

Section Leader (Computer Science Instructor) April 2026 – June 2026
Stanford University (Code in Place) | *Remote* | *Credential*

- Instructed a global cohort of 15 students in Python fundamentals, procedural architecture, and data structures over a 6-week program, achieving an 85% assignment completion rate.
- Led live debugging sessions, dry-running execution flows line-by-line to teach systematic troubleshooting, breakpoint analysis, and algorithmic reasoning.

PROJECTS

TargetPortScanner | *Python, Socket API, Event-Driven Architecture, High-Throughput I/O* | GitHub June 2026

- Built an event-driven network scanner in Python using `selectors` for non-blocking I/O multiplexing, achieving a >99.9% reduction in scan duration (240,000x throughput gain).
- Built timeout tracking using a priority queue to drop silent firewall packet drops instantly, batching connections to prevent Windows socket limits from bottlenecking the scan.

W\O RM: Windows Endpoint Persistence Simulator | *Python, Win32 API, Systems Security, Process Hunting* | GitHub Dec 2025

- Simulated how stealth software maintains persistence and survives system reboots using low-level Windows APIs (`ctypes`) to evaluate OS security boundaries.
- Engineered a companion detection utility using `psutil` that inspects running process trees in real time to detect hidden processes and permission anomalies.

CERTIFICATIONS

Red Hat Certified System Administrator (RHCSA) | Credential April 2025
Red Hat – Linux Administration, Bash Scripting, SELinux Policies, Storage & Firewalls

Microsoft Certified: Azure AI Engineer Associate (AI-102) | Credential March 2026
Microsoft – Azure OpenAI, Vector Indexing, Retrieval-Augmented Generation (RAG)

Google Cybersecurity Professional Certificate | Credential Nov 2024
Coursera – Network Security, SIEM Concepts, Splunk Labs, NIST CSF