

Valmeeki Singh

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Summary

Final-year B.Tech student (Cloud Computing) with hands-on experience building LLM-integrated systems and infrastructure tools. Skilled in Python development, test automation, and AI-native workflows. OCI Certified DevOps Professional with proven ability to design evaluation frameworks, handle LLM failure modes, and ship quality systems. Strong foundation in problem-solving and test-driven development.

Education

Alliance University, Bengaluru B.Tech in Information Technology (Cloud Computing) CGPA: 8.3	July 2022 – July 2026
SVR PU College, Bengaluru II PUC (KSEEB) PCMC 74%	June 2019 – July 2021

Technical Skills

Core Languages:	Python (primary), C++, SQL, JavaScript
AI & LLMs:	REST API integration, Prompt Engineering, JSON schema validation, Groq/LLaMA, LLM failure mitigation
Testing & QA:	Test automation, Evaluation frameworks, CI/CD, Error handling, Logging & monitoring
Frontend:	React.js, Vite, HTML5, CSS3
Backend & Tools:	Django, Git, GitHub, Docker, Vercel
Cloud & DevOps:	Azure, GCP, Render, OCI (Certified)
Data:	MongoDB, MySQL, NumPy, Pandas

Projects

TweetForge AI — LLM Output Evaluation & Testing System <i>Python, React.js, Groq REST API, JSON schema validation, Vercel CI/CD</i>	March 2026 GitHub Live Demo
- Engineered 3 LLM evaluation methods (Social Post Analysis, AI Inference, Manual Definition) to assess and validate model output quality across 6 distinct content styles. - Built strict JSON schema enforcement in prompts with fallback handling for malformed LLM responses—demonstrating awareness of LLM failure modes (hallucination, format deviation). - Implemented brand voice scoring engine (5 dimensions: Professionalism, Friendliness, Humor, Authority, Engagement) with test harness validating outputs against expected ranges—core eval framework practice. - Developed responsive UI with regeneration and filtering logic; shipped to production on Vercel with automated CI/CD—full end-to-end system shipped and actively used. - Applied temperature tuning (0.9) and context injection strategies to balance creativity with consistency—understanding LLM knobs and failure mitigations in practice.	
PMEC-X: Task Consolidation Algorithm for Heterogeneous Cloud Infrastructure <i>Python, Algorithms, Streamlit, NumPy, Pandas, Simulation & Testing Framework</i>	February 2026 GitHub
- Co-developed predictive scheduling algorithm combining EWMA + CUSUM workload forecasting with 7-factor VM scoring engine for intelligent task-to-VM assignment—systems-thinking applied to infrastructure. - Built comprehensive simulation and testing framework comparing algorithm against MinMin and Round Robin baselines; validated SLA compliance and energy efficiency metrics across diverse workload scenarios. - Achieved 14.8% lower energy vs MinMin and 40.4% lower energy vs Round Robin with zero SLA violations—demonstrating rigorous evaluation and test-driven optimization. - Implemented instrumentation and logging throughout pipeline for failure visibility and debugging—key infra quality practice.	

Certifications & Achievements

OCI DevOps Professional Certification <i>Earned through hands-on labs covering CI/CD, infrastructure-as-code, and systems reliability principles.</i>	October 25, 2025
International Publication — ICICC-2025 <i>“Alumni Horizons: Reconnecting the Past and Future” — Shaheed Sukhdev College of Business Studies (Delhi), collaboration with NIT Patna & Univ. of Valladolid. Link</i>	February 2025
Data Structures Specialization	Coursera, April 2024