

JESAL PATEL

Senior Software Engineer (L5)

Bengaluru, India • +91 81402 53130 • p.jesal.work@gmail.com
[linkedin.com/in/jesalpatelindia](https://www.linkedin.com/in/jesalpatelindia) • github.com/rubix-coder

SUMMARY

Senior software engineer with 7+ years building large-scale automation frameworks and AI-model evaluation infrastructure. Architected reusable systems adopted across 5+ teams and validated models up to 70B parameters on cloud AI accelerators. Combines systems thinking, algorithmic problem-solving, and hands-on AI/ML depth; currently completing a postgraduate program in Generative & Agentic AI at IIIT-Bangalore.

TECHNICAL SKILLS

Languages: Python, C, Groovy, Shell scripting

AI / ML: PyTorch, TensorFlow, ONNX Runtime, Hugging Face, CUDA, TensorRT, LangChain, RAG, LLM evaluation

Infrastructure & Tools: Jenkins, Docker, Git, CI/CD pipelines, JIRA

Systems: Linux (Ubuntu, RHEL, CentOS), KVM/AWS VMs, AI-accelerator validation, performance profiling, embedded systems (ARM, DSP, peripherals)

EXPERIENCE

PlantPause • KutumbTree • EPGP (IIIT-B / upGrad)

Feb 2026 – Present

Independent Software Engineer & Founder

- Building PlantPause (plantpause.com), an early-stage brand/product — full end-to-end ownership of product direction, web presence, and engineering.
- Designed and deployed KutumbTree, a family-tree SaaS (Python, hosted on Railway); building a RAG-based family-story generator and a read-only relationship-suggestion agent with confidence thresholds.
- Completing an Executive PG Programme in Generative AI & Agentic AI (IIIT-Bangalore & upGrad) — hands-on with LLMs, RAG pipelines, and multi-agent systems.

Qualcomm India Pvt. Ltd., Bengaluru

2022 – Feb 2026

Senior Software Engineer

- Architected a modular CLI + Jenkins automation framework adopted across 5+ engineering teams, cutting manual validation effort by 98% and establishing a shared standard for AI-model evaluation.
- Built and owned the evaluation pipeline validating CV, NLP, and LLM models up to 70B parameters on Qualcomm Cloud AI accelerators (AI100/AI100U/AI200), reducing end-to-end execution time by 80%.
- Designed a performance-metrics framework (accuracy, latency, power, DDR) that replaced legacy tooling and saved 65% of model-evaluation time across internal teams.
- Led a root-cause initiative using fine-grained telemetry (DSP utilization, DDR spillage, CPU affinity) that reduced AI-accelerator crash incidents by 85%; the resulting playbook became the team standard.
- Mentored a 5-engineer team, led Agile ceremonies and code reviews, and grew two junior engineers to independent feature ownership (one promoted within a year).

- Optimized DSP utilization to 100% through HVX/HMX tuning and DDR-spillage reduction, lifting model accuracy to the 99% target.

Skandysys Pvt. Ltd., Bengaluru

2020 – 2022

Software Engineer II

- Designed and deployed a modular test-automation framework for ADAS embedded systems, cutting time-to-market by 30% and manual testing by 50% while raising coverage by 40%.
- Integrated automation into CI/CD pipelines, reducing manual intervention by 50% and accelerating deployment cycles by 40%.

GreenVolt Mobility LLP, Ahmedabad

2017 – 2019

Electronic Systems (Engineering & Leadership roles)

- Led embedded hardware/software development for EV motor-control systems and built Python-based validation on TI C2000 / ARM Cortex platforms, reducing manual test effort by 50%.

EDUCATION

Executive PG Programme in Generative AI & Agentic AI — IIIT-Bangalore & upGrad (In progress, 2026)

PG Diploma in Machine Learning & Artificial Intelligence — IIIT-Bangalore & upGrad (2020–2021)

B.E., Electronics & Communication Engineering — Indus University, Ahmedabad (2014–2018)

SELECTED PROJECTS

- Accuracy Validation Framework (Qualcomm) — automation validating CV/NLP/LLM models up to 70B parameters on AI100/AI200; 80% faster end-to-end via CLI-Jenkins integration.
- Deep Learning Profiling Framework (Qualcomm) — modular benchmarking of latency, accuracy, DDR, and power for AI models; 65% time savings over legacy tooling, scaled across internal teams.