ANJALY GEORGE

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SUMMARY

Engineer with 6+ years of experience designing scalable, resilient infrastructure and full-stack systems that power mission critical engineering platforms. Strong background in building automation pipelines, LLM integrations, and backend platforms that enhance reliability, performance, and developer productivity.

SKILLS

Languages: Python, C++, Shell/Bash, Javascript, Groovy, Ruby
AI/ML: TensorFlow, PyTorch, OpenCV, scikit-learn, LangChain, ChromaDB, Copilot, scikit-learn
Web/Infra: Flask, Django, React, REST APIs, HTTP/WebSocket
Databases: Oracle, MySQL, ChromaDB, Redis

EDUCATION

Santa Clara University Santa Clara, CA
Master of Science in Computer Science and Engineering (Sep 2019 - Mar 2021)
Relevant coursework : Machine Learning, Big Data, Pattern Recognition & Data Mining, Design and analysis of algorithms, DBMS, Operating System, Computer Architecture, Building Global Teams, Software Ethics, Network Technologies, Distributed Systems

Mahatma Gandhi University College of Engineering
Bachelor of Technology in Computer Science and Engineering (Aug 2012 - Jun 2016)

WORK EXPERIENCE

Intel Corporation, CA — Software Engineer (July 2021 - Present)

- Led end-to-end development of a natural language powered engineering platform, integrating LangChain and Copilot for querying domain-specific data across GitHub, wikis, and Jenkins logs.
- Architected scalable backend APIs using Flask and Python to serve metadata routing, job orchestration, and caching layers for 15+ partner teams.
- Implemented CI/CD pipelines in Jenkins and Docker, supporting multi-OS builds and dynamic artifact packaging across NFS environments.
- Delivered efficient rollout strategies, including monitoring, telemetry, and A/B testing hooks, reducing rollout errors and post-deploy regressions by 35%.

Qburst Technologies — Software Engineer (June 2016 - Dec 2018)

- Developed core backend components using C++ and Python to support high-throughput data processing and validation workflows for enterprise applications.
- Built and maintained RESTful APIs with Oracle database integration, optimizing performance and enabling seamless client-side consumption across web and mobile platforms.

RECENT PROJECTS

AI-Driven Layout Validation Framework (Python,C++, OpenCV, ML Inference)

- Built a hybrid AI and rule-based system for geometric layout verification using Python, C++ and OpenCV, enabling sub-millisecond design rule checks.
- Integrated ML inference into validation flows to shift defect detection earlier by 2+ design stages, reducing late-stage rework by ~40% and improving validation coverage by 25%.

VSCode LLM Assistant for Engineering Workflows (Python, LangChain, ChromaDB, VSCode Extension, Typescript)

- Developed a Retrieval-Augmented Generation (RAG) tool integrated into VSCode to query internal logs, validation reports, and infrastructure docs using natural language.
- Reduced support tickets by ~60% and saved engineering teams 5+ hours/week by enabling self-service debugging and documentation access.