

SWANAND SANJAY KHONDE

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EDUCATION

Rice University <i>Master of Computer Science</i>	08/23 – 12/24 Houston, USA
Vishwakarma Institute of Technology <i>B.Tech Computer Engineering</i>	08/17 – 06/21 Pune, India

EXPERIENCE

Ford Motor Company <i>Software Development Engineer II - NextJS, Python, Typescript, GCP, Mongo DB, Fast Api</i>	01/25 – Present Irvine, California
<ul style="list-style-type: none">Contributed to development and validation of EV control software through software-in-the-loop (SIL) test automation frameworks.Developed a Next.js dashboarding tool to visualize 30GB+ of simulation data per test run, with built-in mass and cost tracking across vehicle variants.Built a FastAPI backend with MongoDB aggregation pipelines to process and serve high-volume regression data, enabling efficient time-series queries for EV signal visualization.Served as product owner for a business-facing logs viewer tool, enabling access to critical service logs and audit trails for monitoring sensitive data interactions.Designed a centralized FastAPI backend for the logs viewer, fetching data from BigQuery where logs were ingested via service-specific log sinks, enabling scalable and secure log access.Managed cloud infrastructure for apps using GCP services, including Cloud Run, Cloud Storage, scheduled jobs, and CI/CD pipelines for automated builds and deployments.	
Nedd Technologies <i>Software Development Engineer - Python, Flask, Azure, PostgreSQL, NextJS, Grafana, Mapbox</i>	05/24 – 08/24 Houston, USA
<ul style="list-style-type: none">Directed the end-to-end development of the ESG Platform, taking the project from conception to a fully functional demo within 2 months.Engineered a robust Flask backend service and designed a highly responsive Next.js UI to support seamless, scalable user interactions.Configured a suite of essential tools, including Grafana, Mapbox, and Azure AI services on an Azure Linux VM, and implemented frontend RBAC to enforce role-specific access controls.Engineered and implemented a data model, creating 60 PostgreSQL database tables covering Environment, Social, Governance, Ops, Regulatory, and Finance domains.Employed Azure DevOps to implement CI/CD pipelines and deployment strategies, reducing deployment time by 50% and increasing product reliability with a 60% decrease in production issues.	
HSBC Technology India <i>Software Engineer - Python, Java, Spring Boot, React, Kubernetes, Ansible, Grafana, Linux</i>	08/21 – 06/23 Pune, India
<ul style="list-style-type: none">Spearheaded development of Load Trade Archive Service, a microservice-based platform for Bloomberg's Load Trade production instance.Enabled direct user access to XML and CSV trade files through a UI with different filters, reducing weekly IT team search time by 30 minutes per member and significantly improving data accessibility and organization.Deployed Log Dream, a logging solution with a user interface that simplified error tracking for production issues across 4 different services, reducing log review time by 60%.Authored a Python-based CR Checker Plugin for Ansible Tower, automating pre-deployment verification of 100% Change Requests per month, enhancing compliance and reducing deployment errors by 85%.Developed a Spring Boot service with API endpoint for Kubernetes deployments via Jenkins, integrating with ServiceNow for automated CR verification, ensuring 100% compliance before production deployments.	

TECHNICAL SKILLS

Languages :	Python, Java, Javascript, Typescript, SQL, C++.
Frameworks :	Spring Boot, Node.js, Express.js, Nextjs, React, Flask, PyTorch, Tensorflow.
Others :	PostgreSQL, MongoDB, Azure, Ansible, Grafana, DevOps, Linux, Pandas, Numpy, Docker, Agile, Redis, Kafka, Tailwind CSS.