SWANAND SANJAY KHONDE

+1 (832)907 3091 | sk218@rice.edu | Github | LinkedIn | Portfolio

EDUCATION

Rice University   08/23 – 12/24
Master of Computer Science   *Houston, USA*

Vishwakarma Institute of Technology   08/17 – 06/21
B.Tech. Computer Engineering   *Pune, India*

EXPERIENCE

Nedd Technologies   05/24 – 08/24
Software Engineer Intern - Python, Flask, Azure, PostgreSQL, NextJS, Redis, Kafka   *Houston, USA*

- Directed development of ESG Platform from conception to launch. Implemented Flask-based RESTful services, handling over **1,000 API requests per second**.
- Designed and delivered a responsive and user-friendly **Next.js** User Interface, achieving an overall user satisfaction score of **90%**.
- Engineered and implemented a data model and transformations, identifying and correcting **500** data anomalies, reducing processing time by **10 hours per week**, and enabling over **100** sustainability reports with insights.
- 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   08/21 – 06/23
Software Engineer - Python, Java, Spring Boot, React, Load Trade, Ansible, Grafana, Unix   *Pune, India*

- 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.
- Facilitated requirements gathering and feedback sessions with business users, creating a UI that streamlined access to trade files and improved data retrieval efficiency by $\approx$ **50%**.
- Earned **Star Performer** Award from HSBC in Q1 2023 for Load Trade Archive Service project, an honor awarded to only **20 individuals** organization-wide for exceptional performance.
- 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.

Optimum Data Analytics   08/19 – 01/20
Machine Learning Engineer Intern - Python, Flask, Ludwig, Tensorflow, MySQL   *Pune, India*

- Conceptualized and led Document Classification using Visual Parameters, a deep learning project, achieving a robust classification model with **95.7% training accuracy** and **83% test accuracy** using a CNN framework.

ACADEMIC PROJECTS

Social Networking Platform   08/23 – 12/23
Javascript, React, Node.js, HTML, CSS, MongoDB   *Rice University*

- Engineered and deployed RiceBook, a scalable social media web application, leveraging MERN stack, resulting in completion of **50+ user stories** and **100+ unit tests** to ensure functionality and performance.
- Integrated test-driven development practices, version control, and advanced web design patterns, reducing initial bug count by **70%** and ensuring robust and maintainable code throughout the project.

TECHNICAL SKILLS

Languages	Python, Java, Javascript, Typescript, SQL, C++
Frameworks	Spring Boot, Node.js, React, Flask, PyTorch
Other	SQL, MongoDB, Azure, Ansible, Service Now, Grafana, Jenkins, CI/CD, Unix, Redis, Kafka