Darshit Patoliya

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SKILLS

Programming Languages & Databases: Python • Golang • Shell • SQL(PostgreSQL, MySQL) • MongoDB
Frameworks/Libraries: FastAPI • Django • Flask • Scikit-Learn • Keras • Celery • ReactJS • Next.js
Tools & Technology: Web Development • RESTful API Development • Machine Learning Integration
Docker • Kubernets • Microservices • Redis • Azure • AWS • CI/CD • Jenkins • GenAI

EXPERIENCE

MORGAN STANLEY | SOFTWARE DEVELOPMENT ENGINEER - III | 29th July 2021 - Present | Bengaluru, IN
- Mentored and encouraged team of young developers.
- Lead GenAI initiative for code conversion/refactoring, technical debt reduction, and removal of security vulnerabilities.
- Implementing advanced analytics modules within the platform, including predictive modeling and trend analysis, results in 25% an increase in data-driven decision making across the organization.

QUALYS INC. | PYTHON & MACHINE LEARNING ENGINEER | 13th January 2020 – 09th July 2021 | Pune, IN
- Engineered data collection pipeline to aggregate security logs from more than 10,000 agents, enhancing threat detection capability.
- Automated process to efficiently spin up and manage more than 80+ virtual machines, reducing manual efforts by 80%.
- Conducted in-depth analysis of more than 300,000 malware samples, to collect data for the training of the ML model.

SMARTIPLY INC. (WISTRON AIEDGE) | SOFTWARE ENGINEER | 10th Sept 2018 – 10th January 2020 | Navi Mumbai, IN
- Solved issue in real-time video streaming, optimized process to achieve 7 second reduction in latency.
- Led the development of a portal for the management and monitoring of over 1,000 edge devices, optimizing operational efficiency and improving system reliability.

PARAMATRIX TECHONOLOGIES PVT. LTD. | SOFTWARE ENGINEER | 1st July 2015 – 7th Sept 2018 | Navi Mumbai, IN
- Developed a solution to identify applicable laws based on multiple criteria, 47 companies across industries and jurisdictions used it, resulting in 30% reduction in compliance time and 40% increase in user productivity.

EDUCATION

BVM ENGINEERING COLLEGE (GTU) - B.E IN INFORMATION & TECHNOLOGY
CGPA 7.48/10 | July 2011 - May 2015

PROJECTS

GUIDE - DATA EXTRACTION AND ANALYTICS PLATFORM
Technologies: Python, FastAPI, MongoDB, Docker, Kubernetes, Azure

EXTENDED DETECTION & RESPONSE (XDR) - ML BASED VULNERABILITIES DETECTION & RESPONSE TOOL
Technologies: Python, ReactJS, Go, Kafka, Azure

DEVICE OPERATION PORTAL (DOP) - MANAGE, MONITOR AND CONFIGURE REMOTELY DEPLOYED IOT DEVICES.
Technologies: Python, Django, React, Celery, gRPC, AWS, MySQL

CERTIFICATIONS & AWARDS

- DeepLearning.AI: **Introduction to Generative AI for Software Development**
- DeepLearning.AI: **Generative AI for Everyone**
- Microsoft Certified: **Azure Fundamentals**
- Microsoft Certified: **Azure AI Fundamentals**
- Udemy Certification: **Master SQL for Data Science**
- Udemy Certification: **Machine Learning A-Z Hands on Python & R in Data Science**
- **India IST Circle of Excellence** for Platform Modernization at Morgan Stanley
- **India Ops Tech R&R** for Out of the Box Thinking & Outstanding Delivery at Morgan Stanley
- **4th Rank** in Innovacracy – TCS Automobile Crowd-sourcing Challenge India

PUBLICATIONS

Reduce Computational Time in Ray Tracing Algorithm was published in IJERD