Chatur Kaur

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SENIOR SOFTWARE ENGINEER

Senior Software Engineer experienced in developing scalable systems using Python, Java, and Go within microservices architectures. Demonstrated expertise in API development, container orchestration with Docker and Kubernetes, and CI/CD pipelines. Proven record in optimizing system performance and integrating modern engineering practices to accelerate digital initiatives.

TECHNICAL SKILLS

- **Technical Skills**: Python, Java, Go, C++, JavaScript, TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, Keras, Matplotlib, Jupyter, SQL, Relational Databases, Jenkins, CI/CD Pipelines, Git, Docker, Kubernetes, Microservices, Kafka, OpenTelemetry, REST API, JIRA, Google Cloud (GCP)
- **Leadership Skills**: Collaboration and team management skills, Passionate about learning and mentoring, Process Improvement
- **Interpersonal Skills**: Ability to rapidly build relationship and set up trust, Time management, Passionate about learning new things, Keen interest in Hiking

WORK EXPERIENCE

SentinelOne   **Jun 2024 - Present**
SENIOR SOFTWARE ENGINEER
- Developed and optimized machine learning pipelines to process identity and security data, demonstrating strong analytical and programming skills while ensuring efficient real-time anomaly detection.
- Implemented deep learning models using TensorFlow/PyTorch, applying OOP principles and test-driven development to enhance behavioral analysis in identity security solutions.
- Processed large-scale telemetry data using robust data preprocessing techniques and leveraging relational database skills for supporting scalable insights.
- Increased model deployment efficiency by integrating ML models with container technologies like Kubernetes and messaging systems such as Kafka, aligning with microservices and CI/CD methodologies.
- Improved test coverage from 15% to 80% in machine learning-driven identity solutions, ensuring robust model performance through disciplined software engineering practices.
- Collaborated with cross-functional teams to integrate applications written in Go, Python, and C++ with advanced monitoring tools, reflecting proficiency in REST API development and modern software design.

Cisco   **Jan 2020 - Jun 2024**
SOFTWARE ENGINEER
- Designed and developed RESTful APIs to facilitate seamless data exchange in SD-WAN controller services, reinforcing core software engineering practices and systems architecture.
- Built a diagnostic tool for VManage (SD-WAN Controller) using Python and REST API, applying TDD and functional programming paradigms to reduce bug detection time by 70%.
- Enhanced system performance and reliability by refining API design and implementing improvements that reflected a deep understanding of microservices, containerization (Docker, Kubernetes), and CI/CD pipeline practices.

EDUCATION

Banasthali Vidyapith   **2020**
B.Tech, Information Technology
- **GPA:** 8.6

JPHS Jaipur   **2016**
AISSCE, Science
- **GPA:** 89%

Kendriya Vidyalaya   **2014**
AISSE
- **GPA:** 9.8

PROJECTS

HAND-WRITTEN CHARACTER RECOGNIZER
- Machine learning based hand-written alpha-numeric character recognizer.
- Convolutional neural network is used as a classifier which trains the EMNIST dataset, and model is built on tensorflow architecture.

PUBLICATIONS

- NFT Broker service for authenticity of Meetings and Events. *Whitepaper : NFT Broker service for authenticity of Meetings and Events - https://www.tdcommons.org/cgi/viewcontent.cgi?article=5757&context=dpubs_series*