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Harshal Mehta

Software Engineer

LinkedIn
Ottawa , Ontario

EDUCATION

Master of Engineering, Electrical and Computer Engineering, University of Ottawa

Sep 2022 — April 2024

Bachelor of Engineering, Information Technology, Savitribai Phule Pune University

Aug 2016 — May 2020

EXPERIENCE

Software Developer - Trend Micro , Ottawa, Canada

May 2024 – Present

- Spearheaded the development of an advanced feature for automatic updates on servers installed within on-premise devices, utilizing **Python**, **NGINX**, and **Kubernetes** to ensure seamless and rapid system updates.
- Developed disk images of various formats for on premise devices ensuring the scalability with different types of hypervisors for better virtualization.
- Engineered a data pipeline to streamline the **ETL** process for secure downloading and organization of signature files on servers, significantly enhancing performance by eliminating redundant downloads and optimizing resource management.
- Designed a backend system using **Python** and **AWS SQS** for seamless transfer of logs to dedicated syslog servers by converting them to proper CEF format.

Data Engineering Intern - Ericsson, Ottawa, Canada

Sept 2023 – Apr 2024

- Guided in the integration of **Microsoft Azure** functions and **Graph APIs** to ensure secure inter-application communication. Utilized **Git for CI/CD** to automate and monitor asset management processes, ensuring continuous operation and risk mitigation.
- Gathered requirements and **consulted** with stakeholders to design and implement secure application architectures within **Azure application** directories, enhancing system security and compliance.
- Developed a global asset management tool, automating processes using **Python** and **MySQL**, which improved data integrity and reduced operational risks by **80%**. Created comprehensive **PowerBI** dashboards to present risk metrics and insights to key stakeholders, streamlining risk management processes and accelerating decision-making by **20%**.

Software Technology Intern - Canada Post Corporation, Ottawa, Canada

May 2023 — Aug 2023

- Used Computer Vision services of **Azure cloud** in order to develop an automated flow of the data within the organisation.
- Increased operational efficiency by **40%** through the implementation of automated solutions to **clean and structure** the data.
- Utilized **Python**, **Excel**, **SQL** and **VBScript** for data scraping, modeling, and analysis, leading to an impressive **90%** enhancement in data quality. This significant improvement empowered stakeholders to make informed decisions based on accurate data.

Software Engineer 1 (Data Specialist) - Cognizant Technology and Solutions, Pune, India

Nov 2020 — Jul 2022

- **Collaborated with leading North American Banking and Insurance providers**, developing web application features that addressed client needs and resolved critical production issues, demonstrating strong **client engagement and problem-solving skills**.
- **Optimized real-time monitoring** processes, resulting in a significant workload reduction by a **factor of 3**, showcasing the ability to implement **efficient solutions** and improve operational efficiency.
- **Developed backend logic** for microservices and managed databases, ensuring reliable and efficient data handling, highlighting **analytical and technical skills**.
- **Utilized project management tools** effectively, ensuring streamlined workflows and facilitating collaboration within cross-functional teams, demonstrating excellent **organizational and teamwork skills**.

SKILLS

Technical Skills: Python | C | C++ | Java | JavaScript | C# | Go | RESTful API | JWT
Data Management: Hadoop | Kafka | MongoDB | MySQL | DynamoDB | Redis | Oracle
Cloud & DevOps: Docker | Kubernetes | Azure AD | ECS | S3 | GIT | Microservices | SpringBoot | MVC
Project Management: JIRA | Confluence | Agile Methodologies

PROJECTS

Data Extractor and Parser (Python , Microsoft Azure)

Summer' 2023

- Designed a real time data extractor allowing multiple users to upload files and get the desired structured output.Used **Python** and **Regex** for developing the extractor. Further parsed the data in desired structured format.
- Developed the automated pipeline for pushing the data in production database available for multiple teams .

Web Crawler, (Python, Multi threading)

Fall'2022

- Developed a web crawler which traverses from the mentioned URL and creates a text file with list of all crawled files.Targeted HTML data was parsed by importing the urllib functions.

AWARDS AND HONOURS

Wheel of Wisdom Received recognition from Cognizant Technology and Solutions for effective tutoring students in NGO. (Year 2022)
Cognizant Cheers Awarded by Cognizant Technologies for excellent performance in Project Team.(Year 2021)