Jeyendra Srinivas Datta Kanaparthi

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Eduction

University At Buffalo , The State University Of New York. 2022- Present
Master of Science in Computer Science and Engineering Buffalo, NY
Relevant Coursework: Algorithm Analysis and Design, Information Retrieval, Data Models Query Language, Blockchain and Application Development.

Gayatri Vidya Parishad College of Engineering (Autonomous) 2016-2020
Bachelor of Technology in Information Technology, Visakhapatnam
Relevant Coursework: Operating Systems, Design and Analysis of Algorithms, Computer Networks, Cloud Computing

Skills And Interests

Language Skills	C, C++, Python, Golang, Java
DevOps Tools	Docker, Kubernetes, K3s, Red Hat OpenShift, Jenkins, Git, KubeVirt
Domains	Cloud-Native, Application Performance Management(APM)

Professional Experience

OPSRAMP *Associate Product Developer, Core-Engineering* November' 21 - June'22 **Hyderabad, India**

- **Kubernetes monitoring:**
  - → Unified APM module for Docker, CRI-O and containerd to monitor applications deployed in Kubernetes.
  - → Provided granular metrics at different levels of node, container, and pod to provide a broad understanding of the cluster.
  - → Implemented filtering functionality based on various labels and parameters that enabled customers to focus on critical resources they are highly interested in.
  - → Added functionality to control agents remotely from the OpsRamp portal to install, upgrade and uninstall.
  - → Took the ownership of the entire project, added and enhanced features suggested that are suggested by customers
  - → Implemented custom Kube-Events filter where customers can add rules with Regex that helps customers focus on specific areas.
- **Enhancement of Linux Host process monitoring:**
  - → Optimized and modified core logic to monitor multi-threaded and partitioned processes which are previous limitations
  - → Added intelligence to automatically monitor detected applications.
  - → Added Crucial fields to provide in-depth insights about the processes running in the machine
- Devised framework to discover, and monitor KubVirt Virtual machines and alert customers when a critical event occurs.
- Remodeled Docker Container Discovery framework to display the live status of containers same as the host
- Programmed a JMX monitoring framework, a plug-and-play model that can monitor any applications that support JMX like Cassandra, Zookeeper, Kafka, Tomcat and many more.
- Enhanced CRI-O monitoring framework by implementing pseudo-events based on files related to CRI-O, which enabled delta discovery and in turn reduced 500K MySQL CRUD operation.

OPSRAMP *Intern Product Developer, Core-Engineering* December' 19 - October' 20 **Hyderabad, India**

- Coded 8 plugins for the APM module to monitor business-essential applications
- Engineered solution and coded framework to monitor K3s end-to-end.
- Added fallback mechanism for collecting critical device inventory data to uniquely identify resources in the ITOM platform.
- Solved a data corruption situation when monitoring multiple applications in the case of Kubernetes.
- Implemented a highly versatile and minimal framework to process open metric format data.

Academic Projects

- **Driver Drowsiness detection**: Capstone project May 2020
  - → Built a Convolution Neural Network using Keras, Tensorflow, OpenCV and Relu as activation functions to notify the driver when he falls asleep.
- **Search Index**: December 2019
  - → Implemented a search index using hybrid data structures and bloom filters.
  - → Can find a string present in the huge pool of words along with frequency and the place of occurrence and prints strings with a given prefix.
- **File System** in C using I-node structure, implemented metadata storing and caching. May 2019
- **Intermediate Language Generator** for a basic assembly language April 2019