Harsha

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EDUCATION

University of British Columbia

Master of Applied Science in Computer Engineering; Percentage: 88.5

Vancouver, BC, Canada

Email: devkhv129@gmail.com

Sept. 2017 - Present

Manipal Institute of Technology

Bachelor of Technology in Computer Science; GPA: 8.86/10.0

Manipal, India

June. 2011 - July. 2015

Experience

University of British Columbia

Research and Teaching Assistant

Vancouver, BC, Canada Sept 2017 - Present

- o Research Assistant Distributed Cloud Native Systems: Research on cluster schedulers for microservices applications. Modeling inter-dependencies between services & strategies to improve performance and resource utilization in shared clusters. Currently developing a extension to Kubernetes to work with devops pipelines in public clouds.
- Lead student IBM CAS Fellowship Project: Lead a team of three to work with IBM cloud team to identify reliablity issues in their microservices deployments.
- o Teaching Assistant Computer Networks and Engineering Design Studio: Each of the courses has more than 80 third year udergrads enrolled. Involved in creating assignment, exams and conducting recitation sessions.

Siemens

Bangalore, India

Systems Software Engineer

July 2015 - July 2017

- Angiography: TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
- X-ray Generator Simulation: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.
- o Touch based interface for collimeter:

SanDisk

Bangalore, India

Graduate Intern

Jan 2015 - June 2015

- SSD Simulator For Interation testing: Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
- o Develop Environment for FTL in Linux: Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.

Projects

- Energy Mangement System for Android Kernel: Open source python library for financial data analysis and machine learning for finance.
- REST API Library Over Named Data Networking: Data Visualization of Git Log data using D3 to analyze project trends over time.
- MPI Cluster Network Simulator Using Linux Traffic Control: Music and Movie recommender systems using collaborative filtering on public datasets.
- Cluster Scheduler for Federated Clusters: Book that gives step by step instructions on setting up developer environment on Mac OS.

Awards

- Innovation Ambassador Siemens 2016: Open source python library for financial data analysis and machine learning for finance.
- Purskar Award Siemens 2015: Data Visualization of Git Log data using D3 to analyze project trends over time.

SKILLS

- Programming Languages: C++, Go, Python
- Technologies: Cloud(AWS, Google cloud, IBM cloud), Kubernetes, Docker, GCE