

Harsha

<https://asystemsguy.github.io>

Email : devkhv129@gmail.com

Mobile : +1-604-679-7845

EDUCATION

- **University of British Columbia** Vancouver, BC, Canada
Master of Applied Science in Computer Engineering; Percentage: 88.5
Sept. 2017 – Present
- **Manipal Institute of Technology** Manipal, India
Bachelor of Technology in Computer Science; GPA: 8.86/10.0
June. 2011 – July. 2015

EXPERIENCE

- **University of British Columbia** Vancouver, BC, Canada
Research and Teaching Assistant
Sept 2017 - Present
 - **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 an 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 reliability issues in their microservices deployments.
 - **Teaching Assistant - Computer Networks and Engineering Design Studio:** Each of the courses has more than 80 third year undergrads 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.
 - **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.
 - **Touch based interface for collimeter:**
- **SanDisk** Bangalore, India
Graduate Intern
Jan 2015 - June 2015
 - **SSD Simulator For Interaction 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.
 - **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 Management 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