

Pritish Mishra

PhD Student, Dept. of Computer Science,
University of Toronto

 1-437-256-1152

 pritchish@cs.toronto.edu

 [Google Scholar Profile](#)

 [Profile Website](#)

SUMMARY

2nd year PhD student looking for Teacher Assistantship opportunities. Have 4 years of industrial experience. Proficient in building and solving issues related to large-scale distributed systems. Author of 8 research papers and 8 patents over the last 3 years. Research interests include edge computing, distributed stream processing, federated learning and IoT systems.

TECHNOLOGIES

Apache Storm	ActiveMQ/ZeroMQ
iOS/Android SDK	NativeScript
Docker	Kubernetes
TensorFlow	PyTorch
Grafana	InfluxDB
AWS, OpenStack, Microsoft Azure, Google Cloud Platform, Alibaba Cloud	
Java	Python
Go	NodeJS

AWARDS

- SAP Stellar Award for Nascent Entrepreneurship, 2019
- 4 times winner of SLI Quarterly Innovation Award, SAP Labs for Q2, Q4 2018 and Q1, Q2 2019
- Winner of SAP Innvent Startup Challenge, 2019

ACADEMIC HISTORY

For University of Toronto:

CGPA: 4.0

CSC2536 - Topics in Computer Science and Education – A+

CSC2228 - Topics in Mobile, Pervasive and Cloud Computing – A+

CSC2233 - Topics in Storage Systems - A

CSC2227 - Topics in the Design and

Implementation of Operating Systems – A+

CSC2541 - Topics in Machine Learning: Machine Learning for Health – A+

EXPERIENCE

SENIOR DEVELOPER (JUNE 2019 – AUGUST 2020)

SAP MOBILE SERVICES, SAP LABS

Product: Snowblind - SDK Library for design of cross-platform applications.

- Developed features like Just-in-time loading for List-pickers control, Analytics Chart and HTTP Image URL Rendering, SDK Designed support for Android/iOS SDK.
- Implemented UI Design for various controls in Android/iOS SDK.
- Acted as Security Lead for all applications deployed for Mobile (iOS/Android)
- Performed penetration testing, threat modelling, I/O operations for application security.

DEVELOPER (AUGUST 2016 - MAY 2019)

SAP CLOUD PLATFORM, SAP LABS

Product: Service-Fabrik broker (CF Incubated Open-Source Project)

- Designed and developed Multi-AZ HA and ZDM functionality for the cluster-based service-fabrik broker deployment for multiple IaaS like AWS, GCP, Azure and Openstack.
- Implemented Point-in-time Recovery Feature for Service-Fabrik Backup Restore Library and facilitated the support for other backing services like PostgreSQL, MongoDB and Redis.
- Designed a framework to reduce the Restore Turnaround Duration for backing services in-order to comply to better RTO SLAs.
- Other open-sourced projects: [CLI Plugin](#), [Backup-restore library](#)

RESEARCH PROJECTS

SHEPHERD – DISTRIBUTED STREAM PROCESSING FRAMEWORK

Aims to resolve issues with real-world edge deployment such as seamless reconfiguration for stateless and stateful applications, load balancing issues with skewed workload distribution.

FLEDGE – FEDERATED LEARNING FRAMEWORK

Aims to reduce resource consumption incurred during real-world edge deployment. Specifically targets machine learning for healthcare as application domain.

ENTREPRENEURIAL EXPERIENCE

CO-FOUNDER (JUNE 2019 – AUGUST 2020)

HUBRIS BY SAP

- Productisation of recommendation service for making databases and applications autonomous
- Deployed pilots for popular databases like PostgreSQL, MySQL, AWS RDS and GCP CloudSQL
- Designed the business model, revenue projections, marketing models, FTE resource allocations, etc.
- Acquired a customer group of 1 Large Enterprise and 5 Small Enterprises
- Presented the idea in the Innvent Startup Challenge 2019, adjudged as the best startup idea in the event
- Presented the idea to SAP Executive Board in Los Angeles for seeking seed funding