# Tamer Sherif

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Software Engineer with experience in Data Engineering, Full Stack and Developer Experience (Tools and SDKs)
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## SKILLS

**Languages:** Python, Go, Java, JS, C/C++ | **Technologies:** LibFuse, OpenCV, Kafka, HDFS, PySpark

**Tools:** VSCode, PyCharm, GoLand

## RELEVANT EXPERIENCE

**Microsoft - Software Engineer II |** *Azure Storage*                    *Seattle, WA* | Aug 2020 – Present
- Led multiple Python SDK releases and their full feature sets, each release with millions of users
- BlobFuse V2 code owner, a new Azure Storage FUSE optimized for heavy ML workloads (LibFuse, GO)
- Designed and built first ever streaming functionality in BlobFuse V2 enabling users to efficiently read/write large files/blobs in chunks saving them large write costs and Petabytes in disk resources
- Filed two patents with Microsoft for the streaming design
- Led the effort to publish Azure Storage REST API Specs on GitHub
- Expanded BlobFuse V2 visibility by leading the MS Docs publication effort helping us get early adopters

**Shopify - Software Engineer Part-Time |** *Data Platform*                    *Ottawa, ON* | Sep 2019 – Dec 2019
- Worked hand in hand with the team to brainstorm and build the first iteration of Crucible - a new data modeling platform (to be used by data scientists)
- Designed and developed all aggregation and simple join operations for all data stream types for Crucible (Python, PySpark, GCS)

**Microsoft - Software Engineer Intern |** *Hardware Lab Kit*                    *Seattle, WA* | May 2019 – Aug 2019
- Designed the first AHLK (Azure Hardware Lab Kit) prototype by migrating Windows Hardware Lab Kit onto Azure and redesigned the end to end driver onboarding pipeline (C#, Python, Azure VNets)
- The new AHLK saves more than 10 minutes per client to on-board relative to existing architecture

**Shopify - Software Engineer Intern |** *Data Platform*                    *Ottawa, ON* | Jan 2019 – Apr 2019
- Spearheaded end to end design and implementation of a new lossless data stream type and its respective operations, improving data uniformity for data scientists (Python, HDFS, PySpark, GCS, Mode, Hue)
- Data platform maintainer fixing numerous bugs and shipping multiple features serving data scientists

**IBM - Software Engineer Intern |** *AI & IoT GBS*                    *Toronto, ON* | Sept 2017 – Aug 2018
- Developed an application that monitors live surveillance streams from a PI camera and runs object detection and segmentation on the stream using MaskRCNN (Caffe, Python, OpenCV)
- Single handedly built the pipeline for a video and image processing web application used to detect different vehicle types. Used SSD300 neural net architecture (ReactJS, NodeJS, Caffe, Python, Flask, OpenCV, Matplotlib)

**BlackBerry- Software Engineer Intern |** *BES*                    *Waterloo, ON* | Jan 2017 – Apr 2017
- Debugged enterprise databases integrated with BlackBerry's cloud (SQL)
- Fixed and tested backend bugs while optimizing BES management console interface (NodeJS, AngularJS)

## EDUCATION

**University of Ottawa**                    *Ottawa, ON* | 2014-2020
*Computer Engineering*
- CGPA: 3.8/4                    Dean's Honor List
- Magna Cum Laude                    Nortel Scholarship

## LEADERSHIP & ACTIVITIES

- Azure Storage Hackathon Judge, 2020                    IEEE Executive Web Developer, 2017-2018
- IBM Hackathon BYOT winner, 2018                    AGE-WELL National Tech Competition 2nd Place, 2018