Hamidreza Ramezanikebrya

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Burnaby, BC, Canada

WORK
EXPERIENCE

TELUS   Vancouver, Canada
Software Engineer Contractor   May 2023 – Jan 2024
- Developed and tested an SDN mediation layer that translates proprietary vendor protocols into a standard, open network API.
- Used Cisco NSO to implement the mediation layer via service and action packages.

UBC   Vancouver, Canada
Teaching Assistant — Distributed Systems   Jan 2022 – May 2025
- Supported students in building a distributed, in-memory key-value store on a cloud-based testbed.
- Ensured the system met requirements including sequential consistency, at-most-once semantics, fault tolerance, scalability, performance, and availability.

IST Austria   Klosterneuburg, Austria
Scientific Intern — Federated Learning   Aug 2020 – Aug 2021
- Integrated quantization schemes into the NVIDIA Collective Communication Library (NCCL).

EPFL   Lausanne, Switzerland
Research Intern — Agent-Based Modeling   Jun 2019 – Aug 2020
- Optimized bulk-synchronous parallel (BSP) models for large-scale agent-based simulations.

EDUCATION

M.A.Sc. in Computer Engineering   Jan 2022 - Nov 2024
University of British Columbia

B.Sc. in Software Engineering   Sep 2014 - Oct 2019
Amirkabir University of Technology

PUBLICATIONS

Hamidreza Ramezanikebrya, and Matei Ripeanu. (re)Assessing Processing-in-Memory Effectiveness for Sequence Alignment. In *Euro-Par'24*
Best Paper Award Nominee.

Ilia Markov, **Hamidreza Ramezanikebrya**, and Dan Alistarh. CGX: Adaptive System Support for Communication-Efficient Deep Learning. In *Middleware'22*
Best Paper Award Runner-up.

TECHNICAL SKILLS **Programming and scripting:** Java, Scala, C, C++, Cuda, Python, Bash, Tcl

Data analysis: Numpy, Pandas, Matplotlib, Jupyter, SQL

Big data: PySpark, Databricks

Edge Computing: Jetson AGX, Jetson Nano, Raspberry Pi

Other: Docker, Cisco NSO, Postman, Yang, Gitlab CICD, Kubernetes, GKE, GCP, AWS, Helm, Terraform, Packer, Protobuf, HPC