

## Hamidreza Ramezani-Kebrya

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### CONTACT INFORMATION

The University of British Columbia  
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### WORK EXPERIENCE

#### TELUS

May 2023 to Dec 2023

Network engineer

Project: Microtemplates: mediation mapping of data models

- An SDN mediation layer is used to translate the vendor proprietary management of network equipment functions and protocols into an open and standard API into the network.
- Use Cisco NSO to develop the mediation layer that is mainly made up of service and action packages.
- Write automated tests to validate service (execute) and action (monitor) packages.

#### Institute of Science and Technology Austria

Aug 2020 to Aug 2021

Research intern

Project: QNCCL: Quantized NVIDIA Collective Communication Library

- Add quantization scheme into NVIDIA Collective Communication Library.
- Have 2x speed-up without losing significant accuracy.
- Have 20% speed-up in training transformers when pytorch uses QNCCL as the communication backend.

#### Ecole Polytechnique Federale de Lausanne (EPFL) June 2019 to Aug 2020

Research intern

### DEGREES

University of British Columbia, Vancouver, Canada

January 2022 to now

M.A.Sc., Computer Engineering GPA: 87.8/100

Amirkabir University of Technology

Sep 2014 to Oct 2019

B.Sc., Computer Engineering GPA: 18.48/20

### TECHNICAL SKILLS **Programming and scripting Languages:**

Java, Scala, C, Cuda, Python, Bash, Expect, Tcl, Lux.

### **HPC tools and models:**

Roofline, Intel Advisor, Perf, RAPL, Likwid, OpenMP, PThreads.

### **Tools and IDEs:**

Git, Gdb, Cuda-gdb, Nsight, Vim, JetBrains developer tools, NetBeans, Eclipse CDT.

### **Other:**

L<sup>A</sup>T<sub>E</sub>X, Web development, Pytorch, Docker, Cisco NSO, Postman, Yang, Openconfig, CICD, Kubernetes, GKE, GCP, AWS, Helm, Terraform, Packer.