

Jasmeet Singh

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PROFESSIONAL SUMMARY

Experienced Software Professional with 6+ years of total experience. Worked on solving novel problems and scaling backend systems. Worked on map-reduce architecture systems and real-time microservices.

EDUCATION

Master of Applied Science

May 2020. UBC, Vancouver Grade 92.3%

BTech, Mechanical Engineering

May 2015. IIT (BHU), Varanasi CGPA 8.22

SKILLS

- ★ Map-Reduce Architecture Systems
- ★ Big Data Handling and Compute
- ★ Real-time microservices
- ★ Technical Communication
- ★ Statistics
- ★ Team Work

LANGUAGES

- ★ C++
- ★ Go
- ★ Python
- ★ Typescript

ACHIEVEMENTS

- ★ **Excellence Award** for Outstanding Performance
Nference, Dec 2022
- ★ **Best Paper Award**,
AIAA SciTech Conference, Orlando, ,
2020
- ★ **Continuing Merit Award** for Academic Excellence
UBC Vancouver, 2018
- ★ **Department Entrance Scholarship**
UBC Vancouver, 2017
- ★ Merit-Cum Means Sholarship for being
in 95 percentile
IIT (BHU) Varanasi, 2011-2015
- ★ Unilever **Future Leaders Internship Fellowship**
Pan IIT, 2014
- ★ 99.3 percentile in IIT-JEE
2011

EXPERIENCE

Senior Software Engineer, Nference

Feb. 2021 - Present

Bengaluru, India

- ★ Developed and maintained **real-time backend applications** which are core to Nference's business. Applications ran on **180+ Million documents** and Electronic Health Record (EHR) data of **6+ Million patients** for healthcare providers - Mayo Clinic, Duke Health, Mercy Health.
- ★ Maintained and augmented the text search backend for the applications. Redesigned indexes used for supporting search so as to **improve real-time search performance by more than 40%** amidst growing datagen output size.
- ★ Led a cross-functional team to add image neighborhood search product feature. Received **Excellence Award for Outstanding Performance** for this effort.

Software Engineer II, Ansys

Sep. 2020 - Dec 2020

Vancouver, Canada

- ★ Worked on **High Performance Computing Systems** for a subsidiary of Ansys called Lumerical.
- ★ Worked on **in-house geometry modules** in order to **reduce build times and shipping cost by more than 20%**.

Software Engineer, Google

May. 2019 - Aug 2019

Vancouver, Canada

- ★ Worked on the open source Computational Geometry Algorithms Library (CGAL), supported by Google Summer of Code to develop dynamic viewers for various geometrical data structures.
- ★ Developed dynamic viewers to see geometrical shapes and compare algorithmic outcomes. This **saved developer times by more than 40%** while working on visualizing their algorithmic outcomes.

Research Assistant, Advanced Numerical Simulations Lab

Sep 2017 - May 2020

Vancouver, Canada

- ★ Created **surface mesh generation applications with unique features - quad-dominance and anisotropy**, for use in numerical simulations of flow over airfoils.
- ★ These meshes produce around **40% more accurate and robust** fluid flow simulation results as compared to isotropic tetrahedral meshes.
- ★ The methodologies used were adopted by several companies in their mesh generation workflows - **Airbus, Lockheed Martin, Pointwise**.
- ★ Received **best paper award** for the work at AIAA SciTech Conference 2020, Orlando, US.