

Abhishek Tyagi

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SUMMARY

Systems software engineer working on GPU runtime software — the CUDA Driver at NVIDIA. 6 US patent applications filed (3 more in drafting) on parallel-processing runtime interfaces. M.Tech from the Indian Institute of Science.

WORK EXPERIENCE

Senior System Software Engineer — NVIDIA

Feb 2025 – Present

CUDA Driver

Working on the CUDA Driver — the runtime layer between applications and the GPU: how work gets submitted, scheduled, and observed.

System Software Engineer — NVIDIA

Aug 2022 – Feb 2025

CUDA Driver

Joined the CUDA Driver team out of graduate school. Learned how a production GPU runtime is built, tested, and kept compatible across generations.

PATENTS

6 US patent applications filed; 3 more in drafting. Published applications:

- Application Programming Interfaces for Determining Execution States of Parallel Processing Contexts — US 19287615, filed Jul 31, 2025
- Indicating Locations of Instructions — US 19181202, filed Apr 16, 2025

EDUCATION

Indian Institute of Science (IISc)

2020 – 2022

M.Tech, Computational and Data Science

Noida Institute of Engineering & Technology

2016 – 2020

B.Tech, Computer Science

HONORS

Winner — Smart India Hackathon 2k19

Mar 2019

MHRD's Innovation Cell — Led Team UCHIHA to build a high-performance Network Intrusion Detection System for Quick Heal.

Silver Medalist

Oct 2014

National Olympiad Foundation · Computer Science

SKILLS / FOCUS

Systems software · GPU runtimes · CUDA · parallel computing · performance and latency engineering