

Gayatri Patankar *Graduate Student*

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Education

- Georgia Institute of Technology, Masters in Computer Science** Aug 2023 – May 2025
Atlanta, USA
- BITS Pilani, Bachelors in Computer Science and Engineering** Aug 2019 – Jul 2023
Goa, India
- Minor in Data Science

Skills

Languages	Frameworks & Tools	Operating Systems	Platforms
C/C++, Java, Python, SQL, Verilog, Bash, Powershell	Git, Pytorch, GDB, Docker, Vim, MySQL, Android Studio, Wireshark	Linux, Unix, Windows, FreeRTOS, xv6, ROS	Arduino, STM32, Nvidia Jetson, Raspberry Pi

Professional Experience

- Lattice Semiconductor Corporation, Software Engineer Intern** May 2024 – Aug 2024
San Jose, USA
- Designed and built machine learning tool to predict congestion in Place and Route for FPGA application using Pytorch.
- Georgia Institute of Technology, Operations Engineering Student Assistant, Office of Information Technology** Jan 2024 – May 2024
- Assisted in the monitoring and regular operations of Georgia Tech's information system using tools like Powershell and Microsoft Office Suite.
- National Chemical Laboratory, Intern** May 2021 – Jul 2021
Pune, India
- Created an open source database system of flow chemical reactions to be used for artificial intelligence using MySQL and Python.

Projects

- Thesis: Design and Implementation of Mixed Criticality Systems for CubeSat Applications** Jan 2023 – May 2023
- Built a computer system for a CubeSat by modifying FreeRTOS to support mixed criticality, in service of the science mission of finding exoplanets.
 - Studied safety standards such as ISO 26262.
- Project EINSat (CubeSat), On Board Computer SubSystem Lead** Jun 2021 – May 2023
- Led a team of students in building the computer system for a nanosatellite.
- Class Scheduling with Genetic Algorithm** Sep 2023 – Dec 2023
- Designed a system using Python and Tensorflow with Keras to recommend schedules to students based on their preferences.
 - Used evolutionary algorithm for schedule generation.
- Functional Safety for Autonomous Vehicles** Jan 2024 – May 2024
- Researched algorithms for autonomous racing using ROS with Python and C++.
 - Used sensors such as stereo camera and LIDAR.

Certificates

Nvidia Deep Learning Institute: Fundamentals of Deep Learning [↗](#)