

SOHAM TAMBA

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EDUCATION

New York University, Courant Institute of Mathematics Sciences New York, NY
Master of Science, Computer Science (Concentration: Deep Learning) May 2021

- **GPA:** 4.0
- **Selected Courses:** Deep Learning, Intro. to Deep Learning Systems, Computer Vision, Deep Reinforcement Learning, Natural Language Processing, Machine Learning for Healthcare, High Performance Machine Learning

National Institute of Technology Goa, India
Bachelor of Technology, Computer Science and Engineering May 2018

- **GPA:** 9.21/10.00; (Concentration: Performance Optimization)
- **Selected Courses:** Design and Analysis of Algorithms, Parallel Algorithms, Software Engineering

EXPERIENCE

Graduate Student Researcher – Deep Learning, New York University, New York, NY June 2020 – Present

- Projects:
 - Model-Based Reinforcement Learning for self-driving cars
 - Unsupervised pretraining for Computer Vision tasks
- Implemented software to test driving policies
- Tools Used: Pytorch, Numpy, Pycharm, Pytorch Lightning, Pygame, Pygym
- Supervisors: Yann Lecun (Facebook AI Research, NYU), Alfredo Canziani (NYU)

Software Development Engineer Intern, Audible, Newark, NJ June 2020 – Aug. 2020

- Developed a web application using Spring (Java) and React (Javascript)
 - **Results:** Reduced time required to generate 40% of a monthly report by 93.33%
- Presented and demonstrated to an audience of 70

Software Development Mentor, Google Summer of Code, India May 2019 – Sept. 2019

- Advised student software developers, revised their code
 - **Results:** Mentee passed final evaluations

Student Software Developer, Google Summer of Code, India May 2018 – Aug. 2018

- Implemented high performance graph analysis for the LightGraphs.jl library using Julia
- Published results in Julia's blog: www.julialang.org/blog/2019/02/light-graphs
 - **Sample Result:** Reduced the execution time of PageRank by 63.54%
- Presented at Julia Conference 2018, University College London to an audience of 50

ACHIEVEMENTS

Competitive Coding: Designed and implemented optimized programs to solve ad-hoc problems using C++

- **Winner** of Codetron, organized by **Goa Engineering College** March 2018
- **Winner** of Programmatics, organized by **National Institute of Technology Goa** Feb. 2018
- **Honorable Mention (rank 88)** at **ACM ICPC**, Amritapuri & Coimbatore, Regional Level Dec. 2017
 - Participants included teams from almost every accredited science/eng. university in India
- **Winner** of Code Heat, organized by **Manipal Institute of Technology** July 2016
 - Approximately 400 participants

TECHNICAL SKILLS

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- **Proficient:** Python, C++, Julia • Pytorch, Numpy, Tensorflow, LightGraphs, Flux • Git, Pycharm, Sublime Text
 - **Intermediate:** Java, Javascript, Scala, ML, SQL, CUDA • Spring, React, Pygym • CLion, IntelliJ, Postman