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 – Nov. 2020

- Project: Self-driving cars using Offline Model-Based Reinforcement Learning
- Implemented software to test driving agents
- Improved the performance of the driving agent by improving the World Model (simulator)
- Supervisors: Alfredo Canziani (NYU), Yann Lecun (Facebook AI Research, NYU)
- Blog post: sohamtamba.github.io/projects/deep-learning/2020/11/07/dl-ppuu.html

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

- Mentored a student software development engineer
  - **Results:** Mentee passed final evaluations

Student Software Development Engineer, **Google Summer of Code,** India — May 2018 – Aug. 2018

- Implemented high performance graph analysis software for Julia's LightGraphs.jl library
- 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 & Coimbator, 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

- **Proficient:** Python, C++, Julia • Pytorch, Tensorflow, Pytorch Lightning, CARLA • Git, Pycharm
- **Intermediate:** Java, Javascript, SQL, CUDA • Spring, React.js • CLion, IntelliJ, Vagrant, Docker, Postman