Hardik SILOIYA

First Year Computer Science Masters Student | Georgia Tech

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🎓 EDUCATION

2023 – 2025	**Georgia Institute of Technology**
	M.S. in Computer Science (Specializing in Computing Systems)
2019 – 2023	**Indian Institute of Technology Bombay**
	B.Tech. (Honors) in Computer Science and Engineering

💼 INTERNSHIPS

May 2022 July 2022	**Wells Fargo, BANGALORE, India**
	Software Engineering Intern
	Offered **Pre-Placement Offer** *for exemplary performance throughout the internship*

- Deployed a real time emotion detection chat-bot obtaining an accuracy of 95% using fine-tuning the BERT model
- Implemented a low-latency suggestion generator in the chat-bot using heuristic algorithms on queries and ML models to give real-time suggestions to executives from a dictionary
- Implemented a feedback loop allowing customers to rate messages, facilitating active learning of neural network

May 2021 July 2021	**MindWorks Global, NEW DELHI, India**

- Implemented a Faster RCNN based object detection framework via Detectron2, and fine-tuned it for accurate detection of headline and body in images of news articles, obtaining a mAP of 90%
- Used the Tesseract Optical Character Recognition model to obtain the textual information from the the objects detected by Faster RCNN

</> KEY PROJECTS

Spring 2022	**Self-stabilizing algorithm for Grid architecture, R&D PROJECT, IIT Bombay**

- Developed an algorithm for stabilizing a distributed system in the form of a grid network, achieving fault recovery from arbitrary state and converging in quadratic order using mutual exclusion

`Mutual Exclusion` `Concurrency` `Distributed Systems`

Spring 2022	**SCLP : Compiler for C-like language, COMPILERS LAB, IIT Bombay**

- Developed a **compiler and interpreter** for subset of C supporting functions, scope levels and control sequences
- Used **Lex** for tokenizing, **Yacc** for parsing and **constructed ASTs** to **generate MIPS assembly code**

`Compilers` `Automata Theory` `Yacc` `Lex` `C`

Autumn 2020	**Online Development Environment (ODE) , SOFTWARE SYSTEMS LAB, IIT Bombay**

- Developed an **online development platform** with an **isolated environment** supporting User Registration and Code saving APIs using a **code directory** storage system
- Implemented **compiler support** for **C++, python, and Java** including their library support
- ⬡ : github.com/hardiksiloiya/405-Found

`Software Development` `Online development` `File storage` `Django` `Python`

Spring 2022	**Covid Analyzer, DATABASE SYSTEMS LAB, IIT Bombay**

- Developed a react application which allows users to **view and compare** various **covid statistics** from countries around the world by querying data from a **time series database** using **influxQL**
- Implemented **user groups** giving access to certain users to add data into the database and global data
- ⬡ : github.com/hardiksiloiya/Covid_analyzer

`Databases` `influx` `user groups` `data visualization`

📖 KEY COURSES UNDERTAKEN

Graduate Level	Advanced Operating Systems, Applied Cryptography, Algorithms, Network Algorithmics
Undergraduate Level	Database Systems, Automata Theory, Compilers, Discrete Structures, Computer Architecture and Lab, Operating Systems, Artificial Intelligence & Machine Learning, Logic for Computer Science, Computer Networks

⚽ EXTRA CURRICULAR

- Secured **City Rank 4** in the **Talent Hunt Exam** conducted by Career-Launcher
- Participated in the **International Children's Festival of Performing Arts** consisting of participants from over 45 countries.
- Received a special mention in **Video-Making Competition** organised by Culturals, IIT Bombay
- Hobbies : **Competitive Programming**, playing **guitar**, **E-Sports**, **football** and watching **anime**