Rohan Phadnis

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EDUCATION

Georgia Institute of Technology **Atlanta, Georgia**
Bachelor of Science in Computer Science / GPA: 4.00 / Major GPA: 4.00 Aug 2022 - May 2026
- Awarded Georgia Tech Faculty Honors for Perfect GPA in 2022-23
- Computer Science Concentration: Intelligence + Modeling & Simulation
- Involvements: India Club Board Member, VIP Robotics Research
- Coursework: Computer Systems and Networks, High Performance Computing, Artificial Intelligence, Perception and Robotics, Startup Lab, Data Structures, Algorithms, Computer Organization, Quantum Computing, Linear Algebra, Discrete Mathematics, Multivariable Calculus, Differential Equations, Object Oriented Programming

EXPERIENCE

Georgia Tech **Atlanta, Georgia**
Research Intern May 2024 - Present
- Developing a distributed file system for research infrastructure
- Implementation uses Apache Airavata Managed File Transfer protocol with FUSE, gRPC
- Uses locking mechanisms to ensure consistency, while unifying various file transfer protocols

Vitrina AI **San Francisco, California**
SWE Intern May 2023 - Aug 2023
- Developed data mining algorithms using Selenium and BeautifulSoup HTML parsing
- Developed LLM-based entity recognition pipeline for supply-chain insights extraction from unstructured text
- Built document indexing and search solutions using vector search and text matching to power platform search engines using ElasticSearch for high speed hybrid search solutions

LIDAR Lab **Atlanta, Georgia**
Undergraduate Researcher August 2023 - May 2024
- Extensively researched implementations of path planning algorithms for static and dynamic environments
- Implementing decentralized, multi-agent, reinforcement learning collision avoidance & path planning algorithm
- Developing benchmarks to evaluate performance of various algorithms using ROS simulators

Vitrina AI **San Francisco, California**
SWE Intern June 2021 - Aug 2021
- Developed data mining algorithms for gathering data in "cold start" situations
- Researched and trained NLP models using vector NLP, keras classifiers, and spaCy transformers for client services indexing and supply-chain mapping

Projects & Hackathons (GitHub: https://github.com/RohanPhadnis)

AlphaMine **Atlanta, Georgia**
1 of 4 team members (https://github.com/AbstractVectors/AlphaMine) October 2022
- Won 1st place out of 45 teams in the HackGT 2022 in the Cheat Code Hacks category
- Built an open source web-mining framework for compiling labeled text and image datasets for machine learning
- Mined data from Bing search engine results using Selenium, URLLib, BeautifulSoup

AlphaTrade **Atlanta, Georgia**
1 of 4 team members (https://github.com/AbstractVectors/AlphaTrade) February 2023
- Developed financial backtester for simulating trading strategies on historical stock data using Yahoo Finance API, Numpy
- Integrated into full-stack web-based platform with databases and visualizers built with Flask, MondoDB, Amcharts

eBay ML Challenge 2023 **Atlanta, Georgia**
1 of 2 team members November 2023
- Developed named entity recognition (NER) models using spaCy, HuggingFace pipelines
- Trained and fine-tuned BERT style architecture models for NER on German dataset
- Submitted 93.9% F1 score model; ranked 6th out of 60+ participating teams

SKILLS

Languages: Python, C++, C, Java, Rust, Go, Swift, Assembly, SQL, Javascript, HTML, CSS
Software: Git, Github, Linux, Docker, AWS, MongoDB, S3, EC2, DynamoDB, Elasticsearch, Android, Heroku, Arduino
Libraries: C++ STL, gRPC, Flask, Django, Cuda, MPI, Numpy, TensorFlow, Keras, Selenium, BeautifulSoup, Pandas, scikit-learn, spaCy, HuggingFace, OpenCV, Qiskit, React, JavaFX, Spring, Llama2, FUSE, boto3