# Ananda Badari

*Updated January 3, 2023*

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**Expected Graduation**: Spring 2023
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## Education

**Georgia Institute of Technology** *GPA: 3.7* 𝔼[Graduation]

- M.S. Computer Science (Machine Learning) — Spring 2023
- B.S. Computer Science — Spring 2022
- B.S. Mathematics — Spring 2022

## Work Experience

**Belvedere Trading** Summer 2022

**Software Engineering Intern** *Trading Data Fabric*

- Created C++ Microservices to injest data into Apache Pulsar and Google Cloud.
- Developed C++ Modules and implemented Unit Tests, gRPC and Splunk Logging.
- Formal training in Python, C++, C, and Financial Derivatives (Options, Futures).

**F5** Summer 2021

**Software Engineering Intern** *Office of the CTO - Security*

- On Project Carbon: an identity based ML approach for modern application security.
- Developed Machine Learning models based on Deep Learning for Anomaly Detection.
- Won First Place in the annual InnovateF5 Project Fair, chosen for further investment.
- Developed REST API microservice in Go, Docker, Kubernetes, and Google Cloud.

**Georgia Institute of Technology** Spring 2020 — Present

**Graduate Teaching Assistant**

- TA for CS 4510 Automata and Complexity, managing 200 students, weekly office hours.
- Previously been a TA for Multivariable Calculus, Differential Equations, Linear Algebra.

## Personal Projects

**Breast Tumor Classification on Histopathologic Slides** Fall 2022

- Breast Tumor Classification on PatchCamelyon histopathologic whole slide images.
- Ensemble Stacking Generalization on ResNet50, G-CNN, Steerable-CNN, and DSF-CNN.

**Weather and Climate Prediction using Machine Learning** Fall 2022

- Meteorological and Climatological Forecasting over next month with Deep Learning.
- Implemented ResNet-19 and 5-layer Artifical Neural Network on WeatherBench dataset.

**Acasi Capture The Flag Learning Platform** Summer 2021

- Headed Team Lead for open source project which hosts interactive CTF projects.
- Utilized Cloudflare, Terraform, Helm for deployment, React, Typescript for UI.

**Speed Detection from DashCam Video** Fall 2020

- Utilized Computer Vision to determine the speed of a car from dashcam training data.
- Solved the comma.ai programming challenge by comparing a variety of techniques.
- Used SIFT, Object Detection, Homography, Dense Optical Map, NVIDIA-CNN.

**Short Term Stock Market Prediction** Fall 2020

- Predicting the next week's stock market prices, using a neural network SVR-MLP model.
- Learned Numpy, SciKit-Learn, Keras, Financial Technical Indicators, Machine Learning.

## Research

**Overview of Bitcoin and Ethereum White-Papers and Forks** Spring 2021

- Compared technical aspects of Ethereum and Bitcoin protocols and their forks.
- Explored Solidity and eWASM programming for Ethereum smart contracts.

## Technologies

Know Well: TensorFlow, Python, C++, Go, OpenCV, Linux, Google Cloud Platform
Familiar: Keras, PyTorch, SQL, GraphQL, Docker, Kubernetes, gRPC, Firebase, AWS