Swastik Samanta

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
BS in Computer Science, GPA: 3.53, Specialization: Machine Learning   *May 2027*

EXPERIENCE

Amazon   Aug. 2025 – Present
Software Development Engineer Intern   *Boston, MA*
- Working on the pricing team for Amazon Pharmacy, developing a micro-service that displays customer savings
- Defined ECS through AWS CDK and developed Coral API endpoint with Java to query DynamoDB table
- Developing a micro-frontend dashboard component with React, and integrating the API to display savings data

GEICO   Jun. 2025 – Aug. 2025
Software Engineer Intern   *Remote*
- Developed automations for the enterprise's Slack platform with Python and Slack API for 30,000+ users
- Architected a Polling/Surveys App with Blockkit UI and queried/stored data through Postgres SQL
- Integrated export feature to display analytics in CSV files and developed a scheduler to schedule polls/surveys

U.S. Bank   Jun. 2024 – Aug. 2024
Software Engineer Intern   *Atlanta, GA*
- Developed features for Zelle's micro-services with React/TypeScript, Node.js and GraphQL for 11+ million users
- Participated in the Grow The Business Hackathon, developing a multi-product select/recommendation app with React/Redux, SpringBoot, and MongoDB - presenting to product management in under 48 hours
- Built CI/CD pipelines with Jenkins and Docker to streamline code deployment and increase test automation

LIDAR @ Georgia Tech   May 2023 – Present
Undergrad Research Assistant   *Atlanta, GA*
- Member of a research project mentored under Dr. Ye Zhao aimed to develop a terrain adapting robot
- Read data with Arduino sensors and Raspberry Pi/Teensy microcontroller architecture, utilizing Pandas to pre-process data and performed feature extraction with ZCR, FFT, mean, min/max, for dimensionality reduction
- Leveraged classical ML/DL models, resulting in 99.9% accuracy with Random Forest for terrain classification
- Developed a Gazebo Simulation for the robot in a Linux Ubuntu/ROS Noetic environment with C++

College of Computing   May 2023 – Dec. 2024
Undergrad Teaching Assistant   *Atlanta, GA*
- Teaching Assistant for over 300 students in Georgia Tech's CS 2050: Discrete Mathematics
- Led office hours, teaching and leading discussions on concepts such as time complexity, cryptography, and induction

PROJECTS

Morgan Stanley's CTG - Winner | *React/Next,js, TypeScript, Tailwind CSS, Python, FastAPI, Firebase*
- Placed 2nd at Morgan Stanley's Code To Give Hackathon - developing a solution for a local housing non-profit
- Integrated KNN based user matchmaking, messaging, and LLM based FAQ support bot with FastAPI endpoints

Youtube Clone | *React/Next,js, TypeScript, Tailwind CSS, Node.js, Express, Docker, Firebase, Google Cloud Platform*
- Developed a video processing microservice with Express and Node, deploying to Google Cloud Run
- Utilized Pub/Sub data pipeline to upload videos to Storage Buckets, and cloud functions to query Firestore

Personal Support Bot | *Python, Flask, PyTorch, Pandas, NumPy, HTML/CSS, JavaScript*
- Created a portfolio frontend and integrated a chat bot assistant by constructing Flask REST API endpoints
- Utilized NLTK to create an NLP model using techniques such as tokenization, stemming, and bag of words

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, HTML/CSS, Java, C/C++, SQL
Libraries/Frameworks: React, Node.js, Pandas, NumPy, Flask, Next.js, PyTorch, TensorFlow, SpringBoot
Developer Tools: Git/GitHub, Docker, Jenkins, Google Cloud Platform, AWS