Anush Nandyala

609-306-0838 | anandyala7@gatech.edu | linkedin.com/in/anushnandyala | github.com/anushnandyala | US Citizen

EDUCATION

Georgia Institute of Technology — Atlanta, GA
Bachelor of Science in Computer Science — GPA: 3.81 — *Expected Graduation in May 2025*
Relevant Coursework: Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Organization & Programming, Objects & Design, Machine Learning, Intro to Database Systems, Linear Algebra

EXPERIENCE

Software Development Engineer Intern — May 2024 – August 2024
Amazon Web Services (AWS) — *Seattle, WA*
- Enhanced client onboarding for AWS service teams and product managers in a feature launch tool full-stack application which automates workflows, including code reviews, Lambda invocations, support tickets, and API call
- Implemented five new API calls using Java Lambda functions and API Gateway for service teams to save and retrieve input and output data OpenAPI-style schemas in workflow registrations in a DynamoDB table
- Refactored five pre-existing workflow registration API calls to support the new API calls
- Implemented two new API calls, including a batch update operation, using Java Lambda functions and API Gateway for product managers to save input and output data values used in workflow executions across different databases across AWS, including an internal DDB table
- Developed new React-based components, inluding wizard, table, and input components, in frontend using Typescript and AWS Cloudscape Design System to save input data schemas and values
- Tested backend API calls with unit, integration, and security tests
- Tested frontend components with Cypress integration tests

Undergraduate Researcher — January 2023 – July 2023
McGrath Lab – Georgia Tech School of Biological Sciences — *Atlanta, GA*
- Used a YOLOv5-OBB machine learning oriented-object detection model to track and predict East African cichlid fish behavior with computer vision, replacing current intensive human monitoring
- Manually annotated images of moving cichlid using CVAT and exported annotations in a COCO dataset
- Developed a Python parser application that converted 1000+ annotations from COCO dataset format to YOLOv5-OBB dataset format with bounding box rotation angles
- Trained YOLOv5-OBB model with converted image annotation data on the Georgia Tech high-performance PACE ICE cloud server cluster
- Used Matplotlib data visualization Python API to generate 10 summarization data graphs from YOLO output
- Achieved a 66.27% oriented-object detection accuracy with trained YOLOv5-OBB model

PROJECTS

Student Productivity Calendar | *React, Node.js, Express.js, PostgreSQL, Docker* — July 2023 – Present
- Built a full-stack calendar web application that enables students to input and track daily college schedules, clubs, tests, and assignments into multiple to-do planners integrated in a dynamic calendar
- Enables users to input, find, and check off daily events between days, months, and years through a React frontend
- Created a backend through a REST API using Express.js and a PostgreSQL database to store/access different types of events (exams, classes, etc.)

Music Tagger | *Python, FastAPI, React, pytube API* — July 2023 – Present
- Built a web application where users can download and tag metadata to MP3 songs from YouTube videos
- Users enter a YouTube song/playlist URL and song data (artist, album, album cover art) through a React frontend
- Developed a Python REST API using FastAPI and pytube to download the user an MP3 file or a folder of MP3s with tagged song metadata for use in music listening apps/devices
- Allows users the ability to also tag local files, download YouTube MP4s, and YouTube thumbnails

TECHNICAL SKILLS

Languages: Java, Typescript, Python, SQL (Postgres), HTML/CSS, PyTorch, C, C++, R
Frameworks: React, Node.js, Express.js, Flask, FastAPI, PostgreSQL, JUnit, WordPress
Developer Tools: DynamoDB, API Gateway, AWS Lambda, AWS Console, Visual Studio Code, pgAdmin, Git, Docker, IntelliJ, CLion, Anaconda, Jupyter Notebook, Android Studio, Google Colab, CVAT