Siddhant Srivastava

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Bachelor of Science in Computer Science   *May 2027*
Courses: Data Structures & Algorithms, Machine Learning, Artificial Intelligence   *GPA: 3.6/4.0*

EXPERIENCE

Software Engineer Intern   May 2025 – Present
Centene Corporation   *St. Louis, Mo*
- Designed and implemented a scalable large file ingestion pipeline using Spring Boot, AWS S3, Lambda, Step Functions, and DynamoDB to process and route document uploads to FileNet based on file size and business logic.
- Automated end-to-end file processing workflow including SFTP transfer, metadata generation, API integration, and scheduled status polling using AWS EventBridge and Secrets Manager, ensuring document lifecycle management.
- Designed and implemented cloud-native API auth framework with Spring Boot, OAuth 2.0/JWT, and Axway Gateway, integrating CyberArk for credential management and Radiant Logic for AD group-to-scope mapping.
- Implemented a CI/CD-ready microservice with automated token issuance/validation and Entra Key integration.

Research Assitant   April 2025 – Present
Georgia Institute of Technology   *Atlanta, GA*
- Developed a computer vision pipeline to estimate gestational weight gain from publicly sourced data, implementing deep learning models and integrating OpenCV for real-time inference and testing.
- Engineered fairness-aware model evaluation using TIDE-based identity annotation techniques, enabling bias detection and counterfactual analysis across demographic attributes to ensure responsible AI deployment.

Internal IT Intern   May 2024 – April 2025
World Wide Technology   *St. Louis, MO*
- Assisted in developing and implementing applications for M365 cleanup project using Powershell in which the goal was to reduce application clutter that the company had accumulated and did not use within the last 5 years.
- Met with Stakeholders (team leads, senior engineers) to define the scope of the applications including data retention period, system design for dry run functionality, exception handling in the case of errors, and alerting and logging.
- Wrote integration tests to test whether cleanup is occurring or not, deployed the utility on Microsoft Azure as well as created an Ansible playbook to deploy the cleanup utility tool to an Azure Virtual Machine.

PROJECTS

Trade Lens | github.com/sid8285/tradelens   January 2025
- Collaborated in a group of 3 to design and develop a full-stack web platform for real-time stock analysis and market insights, leveraging TypeScript, Python, Turso DB, and Google Cloud Platform.
- Integrated AI-driven sentiment analysis by aggregating and summarizing data from online communities such as Reddit leaving further expansion for different sources of info.
- Implemented data pipelines to fetch, analyze, and store trending market discussions and sentiment, delivering actionable insights on stocks which were displayed on interactive dashboards for users.

SwitchDetect | *Python, OpenCV, YOLOv3, Twilio*   October 2024
- Creating live object detection system using OpenCV & YOLOv3 that detects Switch controller with **70%** accuracy.
- Integrated Twilio API to send automated SMS notifications within 2 seconds of detecting the controller.
- Improved detection accuracy by **20%** using non-max suppression to reduce overlapping bounding boxes.
- Optimized for scalability, enabling potential expansion to detect additional distractions through custom training.

MaskEye | *Python, TensorFlow, Google Colab, React*   September 2023
- Developed a mask-detection Python application that utilizes image processing algorithms to accurately identify mask usage, achieving a precision rate of **70%** and a recall rate of **60%**.
- Cleaned and pre-processed over **50,000** data samples subsequently constructing a Convolutional Neural Network for improved prediction accuracy in which TensorFlow was used for model training & React to display results.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, HTML/CSS, Swift
Frameworks: React.js, Node.js, Express.js, UI Kit, Bootstrap, SwiftUI, AR Kit, TensorFlow, Keras, OpenCV, Spring