Aditya Jithesh

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EDUCATION

Bachelor of Science, Computer Science   Graduation: 05/2025
University of Florida, Gainesville, FL   GPA: 3.94
- **Coursework**: Data Structures and Algorithms, Operating Systems, Software Engineering, Database, Networking
- **Awards:** 1st Place at Georgia Tech Hackathon; 2nd Place at UF Hackathon; Dean's List Recipient (6/6 semesters)

SKILLS

Languages	Python, Java, C++, C#, JavaScript, TypeScript, Swift, Kotlin, SQL (Postgres), Bash, Golang
Frameworks/Tools	AWS, React, NextJS, Figma, Agile, MongoDB, Firebase, PowerBI, GCP, Docker, PyTorch

EXPERIENCES

Software Engineering Intern, StylAI   05/2024 – Present
- Implemented a centralized taxonomy of 15,000 clothing items from Zara, Urban Outfitters, etc. and tailored recommendations for users based on hip, waist, and bust measurements with **Python**, hosted on **AWS Lambda**
- Architected a **React Native** component that extracts online coupon codes from 13 websites such as Honey and Coupert, delivering an average of **10%** savings after checkout for **100,000 users**
- Raised **$30K** from pitch contests, admitted to **OpenAI** Startup Fund, and secured **YC/Sequoia** interviews

Software Engineering Intern, Barclays   06/2024 – 08/2024
- Engineered a customer search interface in **Salesforce**, leveraging **Java** for backend logic and **PostgreSQL** for geospatial data storage, deployed on **AWS EC2,** projected to reduce customer acquisition costs by **$50K**
- Designed an **object-oriented Java** utility with **Maven** dependencies to securely import client data, utilizing encryption and access control, reducing integration time from **2 hours to 30 minutes**

Software Engineering Intern, Texas Instruments   05/2023 – 08/2023
- Deployed **Angular** web components enabling Thailand residents to check out on ti.com using local currency instead of USD, resulting in a **9%** increase in transaction volumes
- Built a **Spring Boot** backend to dynamically retrieve customer profiles, while using a **jQuery** frontend to auto-populate address and payment details, streamlining the checkout process and reducing time by **30 seconds**
- Optimized the checkout process by implementing **SQL** indexing on key tables, including orders and customers, reducing average query response times from **5 seconds to 3 seconds**

Machine Learning Intern, DcubeAI   05/2022 – 08/2022
- Leveraged **Keras** to design layers and **TensorFlow** to train and optimize **6 LSTM** models for classifying text by reading level from **3rd to 12th grade**, now used by middle school teachers to assign appropriate summer readings
- Published a **4,000-word** research paper utilizing **NumPy/Pandas** for data analysis and visualizations with **Matplotlib** and **Seaborn**, presenting strategies and practical applications at two conferences

ACTIVITIES

Dream Team Engineering, CTGAN Team Member   01/2024 – Present
- Employed **TensorFlow** to create a Wasserstein Generative Adversarial Network **(WGAN)**, **Progressive GAN**, and **Self-Attention GAN** to supplement COVID CT scan data by creating artificial images
- Trained the models using the **NVIDIA MONAI** framework, 4 A100 GPUs, and SLURM batch jobs
- Evaluated the images produced by each GAN with **FID**, **LPIPS**, and **MMD** to compare the model accuracies

Data Structures & Algorithms Teaching Assistant, CodePath   09/2024 – Present
- Managed 200 students, providing guidance on advanced data structures and algorithms concepts such as **Dynamic Programming**, **Binary Trees**, and **Graphs** for software engineering technical interviews in **Python** and **C++**
- Coordinated with the lead instructor to enhance the interactivity of course materials, utilizing LLM integrations to provide informational feedback on submitted work ranging from **time complexity** and **optimizations**

Machine Learning Research Assistant, University of Florida   09/2023 – 05/2024
- Authored a research paper on **clinical trial** results, using **MongoDB** for patient data storage and **GCP** for the **Computer Vision** model deployment, helping doctors achieve **93%** accuracy in computing the Train of Four ratio
- Developed a virtual testing environment in **C#/Unity** to simulate the Train of Four medical procedure, generating **532** videos for a dataset used to train and validate the model throughout the development process
- Presented findings at the International Biomedical Engineering Conference, winning **2nd** place