Ajinkya Talekar

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Education

University at Buffalo, The State University of New York Dec. 2025
Bachelor of Science in Computer Science, Minor in Mathematics *GPA: 4.0/4.0*

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, SQL, Go, PHP, HTML/CSS
Frameworks & Libraries: React, React Native, Next.js, FastAPI, Django, Node.js, TensorFlow, LangChain
Tools & Technologies: AWS, Docker, PostgreSQL, WatermelonDB, Supabase, Git, Linux

Experience

Software Engineer Intern | *SteinnLabs* Dec. 2024 - Present

- Architected and deployed a full-stack appointment scheduling system using **React** and **PostgreSQL**, implementing real-time updates and secure authentication through **Supabase**.
- Engineered RESTful APIs using **FastAPI** and optimized database queries, reducing endpoint latency by 20% and improving application performance across 1000+ daily user interactions
- Designed and implemented **AWS** infrastructure utilizing S3 buckets for data storage and processing pipelines, enabling scalable data visualization features for environmental metrics.

Computer Science Teaching Assistant | *University at Buffalo* Aug. 2023 – Present

- Facilitated learning of 600+ students in Discrete Structures for Data Structures and Algorithms.
- Demonstrated strong communication and leadership skills by managing and teaching class of over 40 students weekly and providing office hours for individual help.
- Produced code and slides, and assessed tests to support diverse learning styles and improve student engagement.

Projects

WeJim - Workout Assistant Jan. 2025 - Present

- Architected full-stack mobile application using **React Native Expo**, implementing offline-first functionality through **WatermelonDB** synchronization with **PostgreSQL** database.
- Designed and integrated **Supabase** backend infrastructure with secure authentication while reducing API latency by leveraging PostgreSQL's native capabilities.
- Engineered AI-assistant using **LangChain**, enhancing user interaction through natural language processing and user data analysis from Supabase database.

Autovid - Python Package Apr. 2024 - Nov. 2024

- Published open-source Python package to pip with over 500 downloads for creating simplifying video creation using **gTTS, PRAW, Selenium, and MoviePY**.
- Produced user interface using **Django** and tested rigorously with pytest and CI workflows on GitHub Actions.
- Optimized video production time from over 1 hour manually to less than 5 minutes by automating tedious tasks.

SwiftGesture - Gesture Classification Pipeline Jul. 2024 - Aug. 2024

- Developed **TensorFlow and MediaPipe** based neural network pipeline for training real-time hand gesture detection models for hand gestures with over 95% accuracy.
- Implemented full-stack application with responsive front-end using **Streamlit and Python** for data processing and model training.
- Optimized model development process, able to generate model to classify 26 American Sign Language letters using only 80 input images in under 5 minutes.

AlgoRhythm - Algorithm Learning App Aug. 2024 - Dec. 2024

- Led team of 5 to develop full-stack algorithm visualization webapp with **React and PHP.**
- Produced visually appealing and interactive visualizations for algorithms to boost interactive learning.
- Implemented secure authentication, user sessions tracking, and cookies support in PHP.