ADITI VYAS

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Work Authorization: F-1 OPT (Eligible for STEM Extension)

OVERVIEW

Results-driven MS in Computer Science (AI, Cybersecurity & Development) graduate with hands-on experience in full-stack development, machine learning, computer vision, and cloud technologies. Built end-to-end applications using Java, React, Python, and HTML. Skilled at problem-solving, data analysis, and translating requirements into clean, efficient, user-centric solutions. Seeking Software Engineer / Full-Stack / Backend / AI roles.

EDUCATION

George Washington University, School of Engineering and Applied Science — Aug 2023 – May 2025
Master of Science in Computer Science — Washington, DC
SEAS Dean Award • GPA: 3.37/4.0

New Horizon College of Engineering — Jul 2019 – June 2023
Bachelor of Engineering in Computer Science • **GPA:** 9.98/10.0 — Bengaluru, India

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, Bash
Web Development: React.js, Node.js, Express, HTML, CSS, Bootstrap
Machine Learning / AI: YOLO, CNN, LSTM, MediaPipe, scikit-learn, NLP
Tools & Cloud: AWS S3, Docker, Git, Postman, Android Studio, Linux, Canva, Figma
Databases: SQL Server

PROJECT

ConnectWise – Social Media Application (Jan 2025 – Apr 2025)
Tech: Java, Spring Boot, PostgreSQL, React.js, Netlify Functions, AWS S3, JWT

- Built a full-stack social platform with real-time posting, comments, messaging, and notifications.
- Implemented microservices architecture and serverless functions for scalability.
- Integrated S3 for media storage and JWT for secure authentication.

Hand Gesture Navigation System (Jan 2024 – May 2024)
Tech: Python, CNN, OpenCV, Deep Learning

- Developed real-time gesture recognition to control browsers and OS features.
- Trained CNN models on custom datasets; achieved >90% classification accuracy.
- Improved accessibility for users with mobility and motor challenges.

BMyVision – AI Tool for The Visually Impaired (Jan 2023 – May 2023)
Tech: Python, YOLO, NLP, SQLite

- Built an assistive vision system that detects objects and provides real-time voice descriptions.
- Integrated YOLO detection with NLP-based description generation.
- Enabled offline functionality with a local SQLite database.

WORK EXPERIENCE

Software Engineer & AI Integration Intern
Seek and Sight — Remote | Jul 2025 – Present

- Built interactive learning game interfaces using Godot Engine to support neurodiverse learners.
- Implemented GDScript-based gameplay logic, timer systems, and gesture-triggered actions.
- Collaborated with designers/engineers to integrate modular components and improve performance.

Software Engineer Intern
Rovae Incorporation — Bengaluru, India | Jan 2023 – Apr 2023

- Developed responsive client-facing websites using HTML, CSS, JavaScript, Bootstrap.
- Collaborated with cross-functional teams to refine designs, reducing development time by 20%.
- Improved UI/UX and optimized features, increasing client engagement by 15%.

PUBLICATIONS

"Space Robotics – Guardians of the Galaxy" — IJSRSET (Vol. 9, Issue 11, 2022)
Presented at 4th National Conference on Advancements in Computer Science and Engineering.

CERTIFICATIONS

- AWS Academy Cloud Architecting
- Red Hat DO180: Containers & Kubernetes
- Cisco CCNA v7 (Networking, Security & Automation)
- Cisco CCNA v7 (Introduction to Networks)
- NPTEL: Cloud Computing