

ADITI VYAS

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OVERVIEW

I am a computer science graduate specializing in AI, cybersecurity, and web development, with experience developing scalable applications, machine learning models, and assistive technologies. I'm passionate about using creative technology to solve real-world accessibility and security concerns.

EDUCATION

George Washington University , School of Engineering and Applied Science <i>Master of Science in Computer Science</i> (Specialization: AI, Cybersecurity and Development) SEAS Dean Award (50% scholarship)	Aug 2023 – May 2025 Washington, DC, USA
New Horizon College of Engineering <i>Bachelors of Engineering in Computer Science</i>	Jul 2019 – June 2023 Bengaluru, India

SKILLS

- Languages: Python (Advanced), Java (Intermediate), C, Bash, TypeScript
- Web Development: HTML, CSS, Bootstrap, JavaScript, React.js
- Machine Learning & AI: YOLO, LSTM, CNN, MediaPipe, scikit-learn, OpenCV, NLP
- Tools & Platforms: AWS S3, Git, Android Studio, Linux, Microsoft Office, Canva, Figma, Framer
- Database: SQL Server
- Operating Systems: Linux, Windows

PROJECTS

ConnectWise: A next-gen social media app <i>Java, Spring Boot, Netlify Functions, PostgreSQL, AWS S3, JWT</i> <ul style="list-style-type: none">• Developed a scalable full-stack social media platform with real-time posting, commenting, messaging, and notifications• Utilized microservices architecture and serverless functions to ensure high availability and maintainability.• Integrated AWS S3 for media storage and JWT authentication for secure user access.	Jan 2025 – April 2025
Hand Gesture Navigation System <i>Python, CNN, Deep Learning, OpenCV</i> <ul style="list-style-type: none">• Designed and trained a real-time hand gesture recognition system to control browsers and OS interfaces.• Implemented using convolutional neural networks (CNNs) and OpenCV, enhancing accessibility for users with physical impairments.• Achieved >90% accuracy on custom gesture datasets in diverse lighting environments.	Jan 2024 – May 2024
BMyVision: A Virtual Eye for the Visually Impaired <i>Python, YOLO, NLP, SQLite</i> <ul style="list-style-type: none">• Created an AI-based assistive tool that detects and describes objects for visually impaired users.• Combined YOLO object detection, natural language processing, and voice feedback for real-time guidance.• Enabled offline use via local database integration, supporting low-connectivity environments.	Jan 2023 – May 2023

WORK EXPERIENCE

Software Engineer Intern <i>Rovae Incorporation</i> <ul style="list-style-type: none">• Built responsive, client-facing websites using modern web technologies, increasing user engagement by 30%.• Collaborated with cross-functional teams to improve project planning and design, reducing development time by 20%.• Incorporated user feedback to enhance UI/UX, boosting client satisfaction by 15%.	Jan 2023 – Apr 2023 Bengaluru, India
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PUBLICATION

Space Robotics – Guardians of the Galaxy , <i>International Journal of Scientific Research in Science, Engineering and Technologies (IJSRSET)</i> Presented at: 4th National Conference on Advancements in Computer Science and Engineering. Published: Volume 9, Issue 11, May 2022 ISSN: 2395-1990 (Print), 2394-4099 (Online).	
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CERTIFICATIONS

Cloud & DevOps <ul style="list-style-type: none">• AWS Academy Cloud Architecting – Amazon Web Services• Red Hat DO180: Containers & Kubernetes
Cybersecurity & Networking <ul style="list-style-type: none">• Cybersecurity: From Beginner to Expert – Udemy• CCNAv7: Enterprise Networking, Security, and Automation – Cisco• CCNAv7: Introduction to Networks – Cisco