

# 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

<b>George Washington University</b> , School of Engineering and Applied Science <i>Master of Science in Computer Science</i> (Specialization: AI, Cybersecurity and Development) <b>SEAS Dean Award</b>	Aug 2023 – May 2025 Washington, DC, USA
<b>New Horizon College of Engineering</b> <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

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

## WORK EXPERIENCE

<b>Software Engineer &amp; AI Integration Specialist</b> <i>Seek and Sight</i> <ul style="list-style-type: none"><li>• Developed front-end game features and integrated visual assets for an edtech platform supporting neurodiverse learners.</li><li>• Designed AI-driven modules for personalized learning and progress tracking while applying cybersecurity best practices.</li><li>• Collaborated with a remote cross-functional team on agile sprints, testing, and product refinement.</li></ul>	July 2025 – Present St. Louis, Missouri (Remote)
<b>Software Engineer Intern</b> <i>Rovae Incorporation</i> <ul style="list-style-type: none"><li>• Built responsive, client-facing websites using modern web technologies, increasing user engagement by 30%.</li><li>• Collaborated with cross-functional teams to improve project planning and design, reducing development time by 20%.</li><li>• Incorporated user feedback to enhance UI/UX, boosting client satisfaction by 15%.</li></ul>	Jan 2023 – Apr 2023 Bengaluru, India

## PUBLICATION

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

<b>Cloud &amp; DevOps:</b> AWS Academy Cloud Architecting (Amazon Web Services); DO180 Containers & Kubernetes (Red Hat); Cloud Computing (NPTEL)	
<b>Cybersecurity &amp; Networking:</b> Cybersecurity: From Beginner to Expert (Udemy); CCNAv7: Enterprise Networking, Security, and Automation (Cisco); CCNAv7: Introduction to Networks (Cisco)	