

Lakshya Agarwal

Full Stack Web Developer + AI Focus | Virginia Tech (CS, Fall 2028)

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Education

Virginia Tech, Bachelor of Science in Computer Science

Aug 2024 – May 2028 | Blacksburg, VA

Experience

Web Developer Intern, SBM Group Siliguri

May 2025 – Aug 2025 | West Bengal, India

- Redesigned the company's website to deliver a modern, responsive UI, enhancing accessibility and user experience across devices by shifting the complete workflow from basic HTML, CSS to React.JS
- Reduced user friction in navigation, by developing multiple interactive elements and streamlining the site structure.
- Aligned the company's web presence with industry standards, by conducting competitor analysis and integrating best-practice designs.

Technical Skills

Languages: Python, Java, C/C++, C#, HTML, CSS, Swift, GoLang, React.js, Next.js, PHP • **Backend & Cloud:** Blender, Google Cloud Platform, MySQL, PostgreSQL, REST API, FastAPI • **AI:** OpenAI API, Neat-Python, GeminiAPI, • **Frontend:** Tkinter, PyGame, T3 Stack, TailwindCSS, ShadCN

Hackathons

Terra Scope, VT Hacks 13

Sep 26, 2025

- Developed a geospatial platform to identify urban heat-island hotspots, using interactive mapping dashboards and visualization.
- Reduced analysis time by 50%, enabling faster insights for urban planning decisions through efficient dashboard design.
- Prioritized interventions with predictive visualizations, simulating potential temperature reductions in targeted areas.
- **Tools Used:** Next.js 15, React 19, TypeScript, Mapbox GL JS, Tailwind CSS, Radix UI, Python

ModelVision - Top 5 Runner Up, Startup Sprint

Sep 30, 2024

- Built an interactive AR education platform, transforming textbook diagrams into immersive 3D models using Vuforia SDK.
- Enhanced student engagement by enabling real-time exploration of complex concepts via an AI assistant.
- Improved platform scalability by designing a modular system architecture for easy addition of new features.
- **Tools Used:** Unity, Vuforia SDK, Blender, Google Cloud AI

Projects

EduBank.AI, • GO • Next.js • TailwindCSS • UniPDF • GeminiAPI 🌐

Feb 2025 – Present

- Established an AI-powered EdTech platform, measured by completion of functional prototype modules, by designing and implementing the backend and frontend independently.
- Enhanced adaptive learning functionality, measured by successful internal testing of AI-driven study recommendations, by developing and integrating machine learning modules for personalized student guidance.
- Improved system readiness for scalable deployment, measured by robust architecture and modular design, by managing all aspects of product development, including data structures, AI model integration, and UI/UX design.

Retro TV Indian, • GO • Next.js • TailwindCSS • T3 Stack • YT Player 🌐

Nov 2025 – Present

- Developed a full-stack media platform that streams curated retro Indian TV content, measured by successful deployment of functional backend and frontend modules built independently using Go, Next.js, and TailwindCSS.
- Improved content delivery reliability, measured by seamless YouTube playlist integration and optimized API endpoints, by architecting a scalable backend with structured JSON data handling and efficient request pipelines.
- Enhanced platform usability and engagement, measured by fast load times, intuitive browsing UI, and category-based navigation, by designing responsive interfaces, reusable components, and clean state-management patterns.