

Isha Paliwal

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[Portfolio](#) | [Blogs](#) | [LinkedIn](#) | [Github](#)

SUMMARY

Full-Stack Software Developer with 5+ years of experience spearheading scalable SaaS, enterprise, and real-time applications using React, Angular, Node.js, AWS, and PostgreSQL. Expert in system design, engineering RESTful APIs, securing cloud architectures, and optimizing CI/CD pipelines within Agile environments. Currently completing M.S. in Computer Science (GPA: 3.9) at the GWU, eager to drive innovative solutions with clean, efficient, and secure code.

TECHNICAL SKILLS

- **Programming & Web:** JavaScript (ES6+), TypeScript, Angular 19, React.js, Redux, HTML5, CSS3/SASS, Bootstrap, Tailwind CSS, RESTful APIs, jQuery, AJAX, JSON
- **Backend & Database:** Node.js, Express.js, GraphQL, Java, Python, C++, C; MySQL, Oracle, PostgreSQL, SQL
- **Tools & Cloud:** Git, Jenkins, SonarQube, AWS, Postman, JIRA, ServiceNow
- **Methodologies:** Agile (Scrum), Test-Driven Development; **Testing:** Jasmine, Karma (98%+ coverage achieved)
- **Software Engineering Foundations:** Data Structures & Algorithms, Machine Learning, Operating Systems (Unix, Linux)

RELEVANT WORK EXPERIENCE

Mokxa Technologies, LLC

Columbia, Maryland

Software Developer Intern

May 2024 - Present

- Spearheaded development of a loan application system for **Ernst & Young (EY)**, automating 100+ monthly submissions and increasing process efficiency by 25%.
- Led front-end engineering of the **Vote Builder** platform for the **Democratic Party of Virginia**, enabling voter canvassing of 50,000+ residents and improving outreach efficiency by 30%.
- Engineered dynamic voter mapping interfaces using OpenStreetMap, developing a custom automated area mapping algorithm from scratch. Optimized route generation speed by 40% across web and mobile platforms.

HCL Technologies Limited

Bangalore, Karnataka, India

Senior Software Developer

January 2022 - August 2023

- Pioneered multi-tenant platform development for major insurance clients, including **Aviva plc, Chesnara plc, Phoenix Group Holdings plc, and ReAssure**, improving UI accessibility by 30%.
- Led seamless migration of two large AngularJS applications to Angular 12+ (PrimeNG), enhancing system robustness and delivering zero-downtime transitions.
- Optimized Jenkins CI/CD pipelines and integrated SonarQube static analysis, achieving 98% test coverage and reducing deployment times by 20%.
- Mentored a team of 5 developers, promoting Agile practices and enhancing code quality and delivery velocity.

Infosys Ltd

Pune, Maharashtra, India

Senior Systems Engineer

September 2019 - December 2021

- Designed and developed responsive SPAs for **The Boeing Company**, ensuring cross-browser compatibility and delivering solutions to 10,000+ daily global users.
- Spearheaded analysis and execution of 50+ monthly change requests in Java and Angular environments, exceeding client expectations under strict aerospace compliance standards.
- Drove a 25% system performance improvement and maintained a 95% critical bug resolution rate by collaborating closely with QA and DevOps teams.

PROJECTS

- **ConnectWise - Full-Stack Social Media Platform** – React, Redux Toolkit, Node.js, PostgreSQL, AWS S3, JWT, Material UI, Chart.js – Built a scalable platform with real-time chat, post sharing, and admin controls. Integrated JWT Auth, AWS S3 image uploads, and responsive layout. [Live Demo](#) | Sample: [isha.paliwal@gwu.wdu / User@1234.Right](#)
- **Maps Playground Web Tool** – Angular, Leaflet, D3.js, Turf.js, RxJS, Tailwind CSS, Apache Charts – Architecting an interactive geospatial web tool that leverages Leaflet, Turf.js, and TomTom for dynamic route visualization and spatial data manipulation. Supports multilingual UI with ngx-translate and responsive design for an intuitive mapping experience.
- **Portfolio Website** – React, Material UI, Framer Motion, Three.js – Built a personal portfolio using React with Three.js-powered 3D effects, tsParticles animations, light/dark mode toggle, and Lottie files. Integrated EmailJS for seamless contact form handling, showcasing creative frontend design and animation skills.
- **Image Colorization** – Deep Learning, GANs, Pix2Pix, Machine Learning, GenAI – Applied deep learning and AI techniques to transform grayscale images into realistic color visuals using architectures like Pix2Pix, VGG16, & EfficientNet with UNet.

EDUCATION

The George Washington University, School of Engineering & Applied Science

Washington, DC

Master of Science in Computer Science (GPA: 3.9)

May 2025