

Reeya Gupta

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EDUCATION

The George Washington University
Master of Science in Computer Science

Washington, DC
Sept. 2022 – May 2024

Don Bosco Institute of Technology
Bachelor of Engineering in Computer Engineering

Mumbai, India
Sept. 2018 – May 2022

TECHNICAL SKILLS

Frontend: JavaScript (ES6+), TypeScript, ReactJS, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Fetch, WebSockets

Backend: Python, Node.js, Flask, Django, RESTful APIs, SQL, MySQL, PostgreSQL, MongoDB, DynamoDB

Cloud & DevOps: AWS (Certified Developer Associate), Azure (Basic), Docker, CI/CD Pipelines (GitHub Actions)

Tools & Testing: Git, Jira, Slack, Unit/Integration Testing (Django), Pytest, Postman, Webpack, Babel, Swagger, Figma

Methodologies: Agile, SCRUM (Certified Fundamentals), Test-Driven Development (TDD), SDLC

Additional: Cross-functional Collaboration, Technical Mentorship, User-Centric Design, Problem-solving

EXPERIENCE

Sr. Research Assistant
The George Washington University

Jun. 2024 – Present
Washington, DC

- Optimized data retrieval for a MongoDB database hosting 17M+ genomic records (1+ GB) by leveraging indexing and aggregation pipelines for fast, reliable, and scalable data access
- Modernized a legacy bioinformatics platform compromised by SQL injection attacks, migrating from MySQL to MongoDB and rebuilding the frontend with ReactJS and Flask
- Built dynamic chart visualization components in ReactJS with charting libraries (e.g., D3.js) to display protein datasets and cancer mutations boosting user satisfaction by 30% based on stakeholder feedback
- Conducted trial runs and debugging of upgraded systems to validate performance metrics and ensure error-free deployment
- Led Agile SCRUM workflows, including sprint planning and code reviews, ensuring seamless integration of features into production

Technical Administrative Assistant
The George Washington University

Oct. 2022 – May 2024
Washington, DC

- Collaborated with cross-functional teams to translate wireframes into high-quality front-end code, aligning with UX and technical requirements
- Automated data extraction workflows (Python, BeautifulSoup), reducing manual processing time by 80% for NIH research
- Mentored junior developers on coding best practices, documentation, and version control using Git

Software Developer Intern
The George Washington University

Jun. 2023 – Sept. 2023
Washington, DC

- Tested and debugged 50+ API endpoints using Django, identifying and resolving 10+ bugs weekly to maintain system integrity
- Authored technical documentation, including user guides and test reports, to simplify troubleshooting
- Implemented CI/CD pipelines with GitHub Actions, automating deployment and increasing efficiency by 15%

PROJECTS

Wildlife Detector (Ongoing) | *AWS (Lambda, DynamoDB, S3), Microservice architecture* Oct. 2024 – Present

- Developing an offline web application for AI-powered species identification that syncs wildlife data and provides real-time species identification once reconnected, offering users educational insights post-identification

Tech Career Guide | *Nodejs, React, MongoDB*

Dec. 2023 – Feb. 2024

- Created a roadmap tool, employing Node.js and React, to provide a centralized resource for navigating technology career paths