

NIHARIKA BHASIN

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Technical Skills

Languages: Python, Java, C/C++, JavaScript, Node.js, React.js, SQL, HTML/CSS, Flutter, Dart

Technologies/Frameworks: AWS (Lambda, DynamoDB, S3, Cognito, API Gateway, CloudWatch), React, Django, Spring Boot, PyTorch, Scikit-learn, Docker, Git, Jenkins, CI/CD, Microservices, REST APIs, WebSockets

Design/Collaboration : Microsoft Office Suite, Google Suite, Figma, Adobe XD, Framer, Agile, Jira, Trello, Slack

Education

New York University

Masters in Computer Science

Expected Graduation – May 2026

Brooklyn, NY

SRM Institute of Science and Technology

Bachelors of Technology in Computer Science Engineering

Sep 2020 - May 2024

Delhi, India

Experience

Torcent Labs

SWE Intern

June 2025 – August 2025

New York City, USA

- Led backend migration from Firebase to AWS, building a scalable serverless architecture (Lambda, DynamoDB, API Gateway, Cognito) that improved reliability and cut operational costs by 30%.
- Developed and tested 50+ AWS Lambda functions, powering APIs, authentication, and data pipelines, with documented endpoints for scalability.
- Enhanced system observability and debugging by implementing centralized logging, alerts, and health checks, achieving 99.9% uptime.
- Collaborated with cross-functional teams through code reviews, Agile sprints, and API integration, ensuring maintainable, high-performance code.
- Optimized system performance and load handling, reducing API response times by 25% through query tuning and caching strategies.

Tynker

May 2021 – Dec 2021

Delhi, India

Product Intern

- Designed and shipped 6+ gamified learning modules, boosting weekly active users by 17%.
- Conducted usability tests with 50+ students and teachers, uncovering onboarding issues and improving lesson completion rates.
- Redesigned dashboards and lesson flows for 2 modules, reducing user drop-off by 22% through better UI/UX.
- Partnered with engineers and curriculum teams, using SQL and Mixpanel analytics to prioritize roadmap features and validate product improvements.

Projects

Safezone

- Engineered a containerized full-stack web system using React (Vite, Tailwind CSS) and Django REST Framework, deployed on AWS EC2 with Docker Compose, Nginx reverse proxy, and Gunicorn, enabling scalable, stateless JSON APIs with JWT-secured endpoints and role-based access via AWS Cognito.
- Designed a geospatial safety routing engine (“Elastic Corridor”) using Mapbox Directions API + Turf.js, computing detours dynamically to avoid high-severity incident clusters and optimizing latency by offloading routing logic to the client-side geometry layer.
- Integrated PostgreSQL + PostGIS for spatial queries and S3-based asset storage, implemented mock-mode dual-auth abstraction for parallel frontend/backend development, and validated production flows with Playwright E2E tests mocking Mapbox network calls for deterministic reliability.

CodeSync

- Built a full-stack real-time collaborative code editor using React.js, AWS Lambda, API Gateway, Cognito, and DynamoDB, supporting multi-user sessions over a distributed architecture.
- Enabled real-time code execution and streaming by integrating WebSockets, SQS, and isolated EC2 environments with output handling via S3.
- Deployed using CI/CD with GitHub Actions and Docker for seamless version control and resilient delivery.

Leadership / Extracurricular

- Graduate Assistant, NYU ECE Dept: Supported lab coordination for 150+ students; ensured smooth operations of department systems.
- Hackathon Finalist – TechSprint 2023: Developed a real-time mental wellness tracking app using Flask, OpenAI API, and Firebase, winning top 5 out of 100+ teams for innovation and user impact; led UI/UX and integrated sentiment analysis for personalized support.
- Freelance UI/UX Designer : Designed and delivered UI/UX prototypes and responsive web interfaces for 10+ clients using Figma and Framer; improved user satisfaction and conversion in client apps.