

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

Toricient 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

Product Intern

May 2021 – Dec 2021

Delhi, India

- **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.