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: Django, Spring Boot, PyTorch, Scikit-learn, AWS (Lambda, DynamoDB, S3, Cognito, API Gateway, CloudWatch), Docker, Git, Jenkins, CI/CD, Microservices, REST APIs, WebSockets
Design/Collaboration : Microsoft Office Suite, Google Suite, Figma, Adobe XD, Framer, Agile, Jira, Trello, Slack

Experience

Toricent Labs   **June 2025 – August 2025**
SWE Intern   *New York City, USA*
- **Engineered and deployed 50+ AWS Lambda functions** to power core backend operations, integrating with **API Gateway**, **DynamoDB**, **CloudWatch**, and **Postman** for RESTful testing and monitoring.
- **Led end-to-end cloud migration from Firebase to AWS**, redesigning backend architecture to leverage scalable serverless infrastructure using **Cognito**, **SES**, **SNS**, and **Secrets Manager**.
- **Acted as the sole backend engineer** in a high-velocity startup environment, delivering robust APIs, authentication flows, and real-time data pipelines that supported the **entire production web app**.
- **Optimized system performance and observability**, implementing centralized logging, alerts, and health checks via **CloudWatch Metrics and Logs**, ensuring 99.9% uptime post-migration.

Tynker   **May 2021 – Dec 2021**
Product Intern   *Delhi, India*
- Conducted **usability tests** with **50+ K–8 students and teachers** to identify **friction points** in onboarding and lesson completion.
- **Defined** and **prototyped** 6+ gamified learning modules in **Figma,** contributing to a **17% increase** in weekly user engagement.
- **Collaborated cross-functionally** with engineering and curriculum teams to ship features aligned with **customer feedback** and **product roadmap**, using **SQL** and **Mixpanel** to inform product decisions and prioritize roadmap features.
- **Redesigned dashboard** and lesson flow UI for **2 core modules**, reducing user drop-off by **22%** through layout simplification and **improved visual hierarchy.**

Education

New York University   **Expected Graduation – May 2026**
Masters in Computer Science   *Brooklyn, NY*
SRM Institute of Science and Technology   **Sep 2020 - May 2024**
Bachelors of Technology in Computer Science Engineering   *Delhi, India*

Projects

Employee Atrrition Prediction ○
- **Built an ML pipeline** using **XGBoost**, **CatBoost**, and **SMOTE** to predict employee attrition with **86% accuracy** and **87% F1-score**, addressing class imbalance on a dataset of 1,470 records.
- **Engineered 30+ HR features** through **EDA** and used **SHAP** for explainability, identifying key drivers of attrition and improving **minority class recall by 22%**, with recommendations recognized for business alignment and fairness.

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.**

Chatly – Multi-User Java Chat App ○
- Developed a full-stack, multi-user chat application with **real-time messaging**, user login, and avatar support using **Java Swing GUI**, **multithreading**, and **TCP sockets**.
- Integrated **MySQL database** for secure user authentication and message logging, implementing **SHA-256 password hashing** and **prepared statements** to ensure data privacy and prevent SQL injection.

Leadership / Extracurricular

- **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.
- **Graduate Assistant, NYU ECE Dept:** Supporting faculty with research and lab coordination.
- **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.