

NIHARIKA BHASIN

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Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, HTML/CSS

Technologies/Frameworks: Django, PyTorch, Scikit-learn, PostgreSQL, MongoDB, AWS(EC2, S3), Docker, Git, Jenkins

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

Experience

Growth School

Mar 2023 – July 2023

Software Development Intern

Delhi, India

- Built and scaled secure RESTful APIs using **Django**, **PostgreSQL**, and **Redis**, enabling real-time course delivery and supporting a **3x increase in concurrent users**.
- Optimized backend performance by reducing page latency by **40%** through **query tuning**, **caching**, and **Django ORM** profiling, also containerized services using **Docker** for faster deployment.
- Developed **ETL pipelines** in Python and performed **cohort analysis** using SQL, driving feature decisions that led to a **28% boost in retention** through A/B testing and analytics.
- Collaborated in Agile sprints with PMs and designers, also implemented **JWT auth**, CI/CD workflows with **GitHub Actions**, and wrote unit-tested code for production-grade features.

Tynker

May 2021 – Dec 2021

Product Intern

United States[Remote]

- Collaborated cross-functionally with engineers, PMs, and educators to design and launch new K12 coding features, improving accessibility for **1M+ users** and boosting **student engagement and NPS**.
- Automated QA processes using Python and integrated CI testing tools, reducing manual validation by **30%** and accelerating release cycles.
- Leveraged **SQL** and **Google Analytics** to extract behavioral insights that improved lesson completion and retention by **15%+**.

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 Attrition 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.

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.
- Engineered features like **dark/light themes**, **emoji picker**, **auto-scroll**, and **message bubbles** with dynamic alignment, enhancing UX across simultaneous client sessions.

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**.

Leadership / Extracurricular

- **Freelance UI/UX Designer :** Delivered user-centric designs for 10+ clients, focusing on usability, wireframing, and interactive prototyping.
- **Python Mentor at Coding Camps :** taught data structures, OOP, and debugging; guided 80+ students through real-world coding challenges
- **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.