Kaustubh Gharat

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Work Experience

Barabási Lab, Northeastern University | Research Assistant　　　　　　　　Boston, USA | July 2025 – Present
- Verified LLM annotations with **Prodigy** to construct a high-quality dataset for **biomedical NER**.
- Fine-tuned **SciBERT** to improve recognition of BioTool mentions across large-scale document corpora.

Oracle Financial Services Software | Associate Application Developer　　　Mumbai, India | July 2024 – August 2025
- Engineered **20+ UI screens** using **JavaScript, OJET**, and an internal UI toolkit, **cutting development time by 50%;** validating test cases with **Rancher** and supported regionalization and localization features.
- Architected a microservices-based product bundling system with **Netflix Conductor, SpringBoot, Java, and Oracle DB** also processed financial documents for **LLM training** and presented demos to PMs.
- Leveraged **Oracle Code Assist** to enhance **productivity (15%)** and improve **code quality (20%)**; delivered features in biweekly **Agile** sprints using **Jira**.
- Reduced API response time by **10% through JMeter** and deployed applications using **Jenkins** and **WebLogic**.

Web3Dao | Software Developer　　　　　　Cape Town, South Africa (Remote) | Dec 2023 – May 2025
- Launched 2 mobile apps (**React Native, Firebase**) integrating **SteamSDK**, **8thWall (AR)**, **Stripe**, and **RevenueCat**.
- Developed automation systems, a **Selenium bot** generating 100+ tweets/day and an LLM-powered news pipeline.

Kifayti Health Co-op | Software Developer Intern　　　　　　Bangalore, India | Jan 2024 – Jun 2024
- Built a full-stack app with React, Node.js & MariaDB; improved response time by 30% via API & query optimization.
- Deployed and maintained scalable AWS infrastructure (EC2, RDS).

Projects

Korra Finance　　　　　　　　　　　　　　　　　　　　　　Feb 2025 – April 2025
- Conceptualized an **AI crypto wallet** with 30+ cross-platform UI screens using Expo, Redis, & blockchain APIs.
- Plugged in the CoinGecko API and implemented an **AI assistant** for real-time, personalized crypto guidance and news.
- Delivered seamless onboarding, wallet setup, portfolio tracking, and interactive dashboards.

Drones for Smart Agriculture　　　　　　　　　　　　　　　July 2023 – December 2023
- Pioneered a TensorFlow-based model with quantization; achieved **86% accuracy** in drone crop health detection.
- Integrated NVIDIA Jetson Nano on a 5 kg drone; optimized fixed lens imaging and electro-optical illumination.
- Secured a **$25,000** IEEE AESS DSTEI grant; published 2 papers and filed 1 patent on drone-based plant monitoring.

Education

Northeastern University, Master's, Computer Science　　　　Boston, USA | September 2025 – May 2027
Coursework: Algorithms, Database Management, Programming Design Paradigm
University of Mumbai, Bachelor of Technology, Electronics Engineering, *CGPA: 3.5/4*　　　India | 2020 – 2024
Coursework: AI and ML, Cloud Computing, OOP, Computer Networks, Operating Systems, Microcontrollers

Technical Skills

Languages	JavaScript, TypeScript, Java, Python, HTML, CSS, SQL
Databases	Oracle DB, MySQL, Redis, MariaDB
Frameworks	Spring Boot, OJET, React, React Native, Expo, Node.js, Express.js, Tailwind, Git, Jenkins, JMeter, Cursor, Copilot, Selenium, Firebase, AWS, Ubuntu, TensorFlow
Skills	Microservices, REST API, Agile, Deep Learning, NLP, LLM, CI/CD, Cloud Deployment

Awards and Achievements

- **JN Tata Endowment Scholar** – awarded annually to 100 meritorious students for higher studies abroad (≈$12k)
- Finalist in the **Barclays** Data Stellar Hackathon, ranking in the top 5 teams