

## EDUCATION

- **Northeastern University** Boston, MA  
*Master of Science in Computer Science; GPA: 3.9* August 2021 – December 2023
- **Netaji Subhash Engineering College** India  
*Bachelor of Technology in Computer Science & Engineering* August 2014 – November 2018

## EXPERIENCE

- **Bose** Framingham, MA  
*Data Engineer* January 2024 – Present
  - **AWS SAM**: Build and design ETL pipelines, spanning from data acquisition to ML model deployment and monitoring.
- **UBS Asset Management** Chicago, IL  
*Quantitative Developer* July 2022 – January 2023
  - **Multi-Factor Investing Tool**: Constructed a factor investing tool to improve weekly investment positioning in government bonds. Collected feedback from cross-functional teams and presented results using Tableau reports.
  - **Performance Forecasting App**: Identified and fixed data discrepancies in FI division's factor forecasting web app. Spearheaded a 20% increase in forecasting accuracy and improved quarterly performance metrics.
- **Northeastern University** Boston, MA  
*Graduate Teaching Assistant* May 2022 – July 2022
  - **Object Oriented Design**: Facilitated group discussions, graded assignments, and conducted office hours for teaching OOP concepts to 100+ students.
- **Freelancer** Remote  
*Software Engineer* November 2019 – June 2021
  - **Accelerating 3D segmentation of brain tumors**: Developed an edge computing-enabled 3D brain tumor segmentation model. Achieved real-time inference on portable devices, yielding accelerated results with an accuracy of 62.8%.
  - **Aano – Anonymous Location**: Created an end-to-end secure location-sharing platform facilitating real-time updates with one-click dynamic link generation, eliminating the need for viewers to sign up or download any application.
- **Tata Consultancy Services** India  
*Software Engineer* October 2018 – October 2019
  - **Cloud Migration**: Migrated a client's legacy medical devices platform from on-premises to AWS, enabling multi-tenancy. Followed serverless best practices and orchestrated layers using IaC to deploy highly scalable systems.
  - **Semantic Document Search Engine**: Designed and implemented a document search engine for 50+ SOPs. Programmed an automatic support ticket scheduling system, thus reducing ticket resolution time by 75%.
  - **Ticket Resolution Chatbot**: Led a team of 2 engineers in developing conversational AI to automate IAM requests. Trained on 10,000+ rows of support requests and conversation logs.
  - **Client Team Coordination**: Managed a client's PLM team by organizing daily standups and scrum meetings. Coordinated with QA and DevOps team to fix bugs and rapidly deploy cloud solutions.
  - **Robotic Process Automation**: Transitioned RPA tasks to Beautiful Soup and Selenium, reducing costs by 50%.
- **Hungry Bulb** India  
*Research and Development Engineer* November 2016 – April 2017
  - **Multi-room Wireless Speaker**: Crafted and produced a 3D-printed Wi-Fi + BLE speaker with an Android app.

## PROJECTS

- **Decentralized Chat**: Leveraged RMI to implement a distributed and encrypted peer-to-peer messaging app. Upgraded with group chat, vector-clock synchronization, fortified with Paxos consensus algorithm for fail-safety.
- **Playyn - Online Music Store**: Built an online music store, catering to an individual's specific audio interests, by showing a detailed audio analysis and feature breakdown for tracks uploaded by artists and bands.
- **Eternal Labyrinth - Java-based adventure game**: Created a graphical adventure game where users can navigate procedurally generated dungeons, tackle puzzles, amass rewards, and vanquish formidable monsters to reach goal position.
- **Phototron - IITG Techniche**: Created an autonomous robot that tracks and catches balls while they fall through an incline.

## TECHNICAL SKILLS

- **Languages**: Python, R, Javascript, SQL, NoSQL, Java
- **Technologies**: AWS, REST API, Docker, Snowflake, GCP