

# Tiyas Dey

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## EDUCATION

- New York University** Brooklyn, NY, USA  
*MS Computer Engineering; GPA: 3.889/4.0*  
*Courses: Machine Learning, Data Structures and Algorithms, Real Time Embedded Systems, Deep Learning, Big Data, Internet Architecture and Protocols*  
*Sept 2022 - May 2024*
- National Institute of Technology, Durgapur** Durgapur, WB, India  
*B.Tech Electrical Engineering; GPA: 9.19/10*  
*Courses: Database Management Systems, Computer Networks, Natural Language Processing, Multimedia Information Systems, Soft Computing, Microprocessors and Microcontrollers*  
*July 2017 - June 2021*

## WORK EXPERIENCE

- GreenPortfolio** New York, NY, USA  
*Data Science Intern*  
*June 2023 - Present*
  - Improved and refactored the data pipeline with Python, enhanced the algorithm for rating calculations, fetching and organising data from various APIs and moved the database to Google BigQuery
- New York University Information Technology** New York, NY, USA  
*API Developer (Part-Time)*  
*Sept 2022 - Present*
  - Enhancing an existing product for NYU applications by improving API request functionalities using React, Flask, and successfully migrating from Snowflake to MySQL.
  - Improved user engagement for the portal and automated process flow email notifications.
- JPMorgan Chase & Co.** Bengaluru, KA, India  
*Software Engineer (Full-time)*  
*Aug 2021 - Aug 2022*
  - Collaborated with application teams to facilitate the firm's modernisation drive of migrating to the cloud and adopting Terraform as the standard IaaS.
  - Devised a Golang based CLI to transition the state of S3 buckets from AWS Service Catalog to Terraform.
  - Enhanced a new architectural modeling tool that helps software architects to build diagrams through Yaml code using Angular and Spring Boot.
- Software Engineer Academic Intern* Feb 2021 - July 2021
  - Built a web application for the team's product leveraging Reactjs and Spring Boot.
  - Integrated the app with the firm's CI/CD pipeline based on Jenkins and deployed it to AWS, EC2 and then EKS, while adhering to the firm's security requirements.
- Software Engineer Summer Intern* June 2020 - July 2020
  - Created an android application for the NPO, Learning Curve, which aims at inculcating socio-emotional values in children belonging to under-privileged backgrounds.
  - Utilized React Native to create a platform that could be leveraged by Learning Curve facilitators to create customized lessons, as well as by the students to access those lessons.

## RESEARCH EXPERIENCE

- EMERGE Lab - NYU** New York, NY, USA  
*Graduate Research Assistant*  
*August 2023 - Present*
  - Utilising Deep Reinforcement Learning to aid in development of a simulation environment to test autonomous human-like agents
- AI For Scientific Research, NYU** New York, NY  
*Coordinator*  
*Sept 2022 - Dec 2022*
  - Coordinated on a project to devise a Machine Learning Model to detect transposable elements.

## PROJECTS

- Cheap Thrills - A Budget Trip App (Reactjs, Flask, MongoDB, Postgres, Spark)** April 2023
  - A trip recommendation app that suggests destinations based on travel dates and desired budget, aimed at helping students plan their holidays better.
- Modified RESNET on CIFAR-10 (CNN, ResNet, Deep Learning, ADAM optimiser)** March 2023
  - Designed a modified ResNet architecture to gain 93% accuracy on the CIFAR-10 dataset while using less than 5,000,000 trainable parameters

## SKILLS SUMMARY

Java, Python, ReactJs, Spring Boot, MySQL, MongoDB, Hadoop, Spark, AWS, Git, Jenkins, Linux, Mulesoft, REST APIs, GraphQL