

EDUCATION

Rutgers University, New Brunswick, New Jersey

Jan 2020-Present

Master of Science in Computer Science – **GPA: 4.0/4.0**

Courses: Massive Data Mining, Introduction to Artificial Intelligence, Analysis of Algorithms

Visvesvaraya National Institute of Technology, Nagpur, India

Aug 2013-May 2017

BTech in Computer Science – **GPA: 7.85/10.0**

Courses: Data Structures and Algorithms, Operating System, Distributed Systems, Image & Video Processing, Intro to Artificial Intelligence

SKILLS

Programming Languages

Java, Python, C, C++, MATLAB, Typescript

Mobile and Web Technologies

ReactJS, React Native, Redux, Angular2, HTML5, CSS, JS, JavaFX

Frameworks

Java-Spring (Boot, Cloud, Data, Security, Web), PySpark, Django-Python, Ionic, Flask

Databases

MongoDB, Oracle DB, MySQL, AWS RDS, H2

Other

Consul, Docker, OpenShift, Jenkins, OpenCV, Junit, Hibernate, Kafka, Redis, Vault, Maven

WORK EXPERIENCE

Graduate Research Assistant, Rutgers University - New Brunswick, New Jersey

Aug 2020-Present

- Researching in Trespassing behavior for NJ Railroad program with **OpenCV** and **Object-detection** algorithms namely **YOLO**.
- Devised algorithms for **near-miss** of trespassers, **blockage time**, and **signal detection** exposing **Flask APIs** for client UI.
- Introduced **Kafka event streaming** to pass detection result events to **MongoDB and Client**, **improving efficiency by 80%**.

Senior Software Developer, Barclays US - Pune, India.

Aug 2017-Dec 2019

Push Notification Engine for Barclays US

- Developed generic **Microservices** in **Java8** using **Spring Cloud Streams** to send Push, Email & Letter communications.
- Implemented **Redis** for caching and **Kafka** for streaming events b/w services. Integrated services with **Consul** and **Vault**.

Service Migration from Elastic VMs to OpenShift aPaaS – Containerization

- Bootified (**Spring to Spring-boot**) about ~200 services by developing custom **Java plugins**, **archetypes** and **bash scripts**.
- **Automated ~450 service migration** across Barclaycard US by delivering a **React JS** dashboard tool to developers.
- **Containerized** services for scalability by deploying to OpenShift aPaaS using **Jenkins CICD** achieving 0% downtime.

Customer Correspondence Management Engine

- Developed an engine with ~15 **Microservices** in **Java8** leveraging **Spring Cloud Streams** to create Business card statements.
- Generated **PDF** and **AFP** statement templates using **Apache FOP**, **Thymeleaf**. Stored and retrieved statements from **AWS S3**.
- Built a **Batch processing and monitoring tool** using **ReactJS (Redux)** for Business, **reducing manual efforts by ~80%**.

Software Developer Summer Intern, Indian Institute of Technology (IIT) - Bombay, India

May 2015-July 2015

- Created an **open source MOOCs platform** like **edX** for ~3000 Indian Institutions using **Django-python** framework.
- Implemented **Multi Role User Registration and Login** features on backend and frontend for >30K users with **MYSQL** database.

PROJECTS

Co-Founder, Student Portal VNIT, India

Dec 2015-Present

- Founded an online portal for ~3000 college students using **Django-python** framework aiming to collect and display student related activities such as Interview experiences, Club events, College news feed.
- **Leading the design and development** for team of 10 developers, mentoring on designing and software engineering principles.

Lead, Business Inventory Mobile Application, New Jersey

May 2020-Present

- Creating a **React Native (with Redux)** cross-platform mobile application for a small business to manage product inventory.
- Leading a team of 4 developers, developing backend in **Java Spring Boot** and deploying application to **AWS EBS and RDS**.

Senior Year Thesis, Debate Bot, Visvesvaraya National Institute of Technology, Nagpur, India

Aug 2016-May 2017

- Researched in **Seq2Seq** learning to create a bot debating on a topic. Trained on a dataset produced from news feed, blogs with **Retrieval based** learning: **Sentiment Analysis**, **Key-Phrase Extraction** and **Generative based** learning: **LSTM (TensorFlow)**

ACTIVITIES

- **Attained 3rd position** at **State Bank of India Hackathon** to Predict Loan defaulters 6 months ahead of time leveraging **LSTMs**.
- **Winner of Barclays Annual Coding challenge; 2 times Winner of the quarterly Innovation challenge; Center of Excellence awardee.**
- **Achieved 1st position** at cultural event 2015 and **3rd position** at IIM Lucknow as a member of **Dance Club (Team 911)** at university.