

## EDUCATION

**Princeton University, Princeton, New Jersey**

Jan 2021 – May 2021

[Exchange Program] Advance Computer Vision – GPA: 4.0/4.0

**Rutgers University, New Brunswick, New Jersey**

Jan 2020 - [expected] Dec 2021

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

Courses: Massive Data Mining, Introduction to AI, Computer Vision, Machine Learning, 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, Lua

**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

**Software Developer Summer Intern, Adobe Inc.**

June 2021-Sept 2021

- Working with the Developer Exp. Platforms Architecture and Runtime Team to improve Observability (Logging) of I/O runtime.
- Implemented plugins in fluent-bit log processor to limit the rate of logs output to Splunk storage and deployed on Kubernetes.
- Calculate overall latency for logging with Fluentd plugins after invocation of OpenWhisk Actions.

**Graduate Research Assistant, Rutgers Rail and Transit Program, New Jersey**

Aug 2020-Present

- Computer Vision research developing an Intelligent Grade Crossing Tool for the Federal Railway Administration, USA.
- R&D object detection, tracking algorithms like **DeepSORT**, **YOLO**, Signal light detection using Fourier Transforms and LSTMs.
- Design and develop CV algorithms to Estimate Train Speed, Platform passenger counting, Autonomous Rail-Track inspection.
- Developed, Trained, Deployed models to production on AWS GPUs. Kafka event streaming to improve system efficiency.
- Prototyping ideas from Research papers for **Train Speed Detection** using Ego centric camera.
- Upcoming publication** in the AREMA conference during Sept 2021.

**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.

**Service Migration from Elastic VMs to OpenShift aPaaS – Containerization**

- 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.
- 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.

## PROJECTS

**Co-Founder, Student Portal VNIT, India**

Dec 2015-Present

- Founded an online portal for ~3000 college students using **Django-python** framework. **Leading the design and development.**

**Lead, Business Inventory Mobile Application, New Jersey**

May 2020-Present

- Creating a **React Native (with Redux)** cross-platform mobile application for small businesses to manage product inventory.

## ACTIVITIES

- Attained 3<sup>rd</sup> 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 1<sup>st</sup> position** at cultural event 2015 and **3<sup>rd</sup> position** at IIM Lucknow as a member of **Dance Club (Team 911)** at university.