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DHIRAJ D. GANDHI

My passion for Computer Science drives me to succeed

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EDUCATION

Rutgers University | Princeton University, New Jersey *Master of Science in Computer Science* – **GPA: 4.0/4.0**

Jan 2020 - [expected] Dec 2021

Visvesvaraya National Institute of Technology, *Nagpur, India | B. Tech Computer Science*

Aug 2013 - May 2017

SKILLS

Programming Languages Java, Python, C, C++, 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 Docker, Kubernetes, Consul, Vault, Jenkins, OpenCV, Junit, Hibernate, Kafka, Redis,

Fluentd, Fluent-bit, Maven, Prometheus, OpenShift, OpenWhisk.

WORK EXPERIENCE

Adobe Inc. | Software Developer Intern | Developer Experience – Acceleration Team

June 2021 - Sept 2021

- Initiated and developed Rate Limited Logging using Fluent-bit log processor for the Adobe I/O runtime team.
- Implemented in **Lua** to limit the log rate of customers to 10MB per **activation**, thus reducing **Splunk** storage cost for business.
- Improve latency for all the **Adobe Experience Cloud** customers by setting equal size thresholds on logs generated by them.
- Developed a feature in Fluentd to calculate overall latency for logging to meet SLAs, using Fluentd plugins and Ruby scripting.

Rutgers Rail and Transit Program | Graduate Research Assistant | New Jersey

Aug 2020 - Present

- Developed an Intelligent Grade Crossing Tool for Federal Railways to reduce the 95% accidents occurring due to Trespassing.
- Initiated the design and development of the backend system using Python Flask APIs and MongoDB deploying to AWS EC2.
- Implemented **Kafka Streaming** for various processed events to store data in MongoDB and publish events to **ReactJS** dashboard.
- Designed and Trained deep CNN networks like YOLO on AWS servers using datasets like COCO, MOT and manually labelled data.
- Implemented object detection, tracking algorithms like **Deep SORT, YOLO** resulting in a **mAP of 0.85** using Data Augmentation.
- Developed location wise custom algorithms for Signal light detection using **LSTMs** giving an accuracy of 95%.
- Designed algorithm to estimate Train Speed for location tracking using ego-centric camera to avoid expensive LiDAR devices.

Barclays US | Senior Software Developer (BA4) | Pune, India.

Aug 2017 - Dec 2019

- **⇒** Push Notification Engine for Barclays US
- Developed Microservices in Java8 using Spring Cloud Streams to send Push, Email & Letter communications to ~10M customers.
- 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
- Initiated migration of ~450 services from across Barclaycard US and delivered a ReactJS dashboard to aid developers in migration.
- Containerized services for scalability by deploying to OpenShift aPaaS using Jenkins CICD achieving 0% downtime.
- Lead development of Java plugins, archetypes to automate code migration to new Platform reducing ~7day/developer efforts.
- Developed an engine with ~15 Microservices in Java8 leveraging Spring Cloud Streams to generate Business card statements.
- Built a Batch processing and monitoring tool using ReactJS (Redux) for Business, reducing manual efforts by ~80%.
- Developed PDF and AFP statement templates using Apache FOP, Thymeleaf and Stored and retrieved them from AWS S3.

Indian Institute of Technology (IIT) - Bombay | Software Developer Inter | Mumbai, 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 | http://studentportal.vnit.ac.in/

Dec 2015 - Present

- Founded an online portal using **Django-python** framework with ~4000 registered students, faculty members and alumni, to help connect students across university and share campus related activities, interview experiences, tech blogs and a lot more.
- Voluntarily leading the design and dev with a team of 10 student developers adding new features to the portal.

Lead, Business Inventory Mobile Application, New Jersey

May 2020 - Jun 2020

- Creating a React Native (with Redux) cross-platform mobile application for small businesses to manage product inventory.
- Lead a team of 3 developers to design and develop Database schema, Rest APIs, UI screens and deployed to AWS EBS and RDS.