

# TARUN SANKHLA

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[Github](#) | [LinkedIn](#) | [Portfolio](#) | [Blog](#) | [Stackoverflow](#)

## EDUCATION

### Northeastern University

Master of Science in Information Systems, GPA 4.0

Boston, MA

Expected May 2025

Courses- User Experience Engineering UI/UX, Cloud Computing with MicroServices, Data Structures & Algorithms OOPS(Object Oriented Programming).

### University of Mumbai, Bachelor of Engineering

July 2020

Course- Computer Architecture, System Design, Database Management System, Web Application Development, Machine Learning.

## TECHNICAL SKILLS

**Languages/Database** - JAVA, TypeScript/Javascript, Python, C++ Terraform, HTML, CSS, PostgreSQL, Mongo DB, MySQL

**Frameworks** - Node JS, React JS, Spring Boot, Spring Hibernate, Jest, Kafka, Jenkins, Redux, Angular, Webpack, Jquery, SCSS

**Cloud** - GCP Instance Template, Load Balancers, Firewall, IAM, AWS EC2, SQL Instance Encryption, Docker, Kubernetes

**Tools & Technologies** - Git Version Control, GitHub Actions Workflow, Unix/Linux, Figma, Neo4j, WebScraping, Packer

## PROFESSIONAL EXPERIENCE

### RAZORPAY

Bangalore, India

Software Development Engineer

July 2022 - August 2023

- Designed the MVC architecture for insurance module using **JAVA Spring Boot**, to process renewals, and refund payments. resulting in a \$20k monthly revenue increase.
- Developed **Cron Job Scheduler** System & integrated retry mechanism algorithm using **cron-utils** starter in Java., reducing bug latency by 70%.
- Created an HTTP **JobQueue** microservice for REST **API** task using starter-taskqueue, to address serverside issue and third-party downtime & reduce downtime by 19% monthly.
- Transformed Payroll Banking System's by developing **user-interactive** interface using React js for SalaryRevision Module by market research, and achieving 82% Client Satisfaction | [FinTech](#)
- Built a server-side application automating cash flow payments for mid-sized enterprises, utilizing **CI/CD** for deployment with **Terraform** and **Kubernetes**.
- Integrated **Salesforce in Web Services Connector library** for lead intent capture, and facilitating management of user intents from multiple sources, resulting in a 25% increase in lead conversion rates.

### CAPGEMINI

Mumbai, India

Software Engineer Associate

January 2021 - July 2022

- Led the Agile development of Orbit Studio, a critical application for Baker Hughes and GE operations, using **PostgreSQL**, **Python** and **GRPC** to improve overall system functionality.
- Implemented a fault-tolerant real-time alerting system in **Kafka** for Bently Nevada using **librdkafka** C++ library with producer-consumer middleware architecture, incrementing system reliability upto 5% and ensuring continuous operation.
- Built and deployed a scalable web application with distributed storage on AWS using **Kubernetes** and **Jenkins** for automated **CI/CD**, leveraging S3 for optimizing data storage and access for the monitoring application.
- Implemented an analysis dashboard using **GCP Cloud** with Javascript, that amplified operational efficiency by 12%, streamlining transactions and visualizing workflows through an intuitive interface.
- Designed prototypes of data models and scripts for analysis, resulting in streamlined workflows and improved monitoring capabilities.

## PROJECTS, RESEARCH PAPERS & ACTIVITIES

### Healthcheck Application

- Provisioned cloud infrastructure using **Terraform** to deploy VM instance templates, and groups, alongside setting up **DNS** records, IAM service accounts, load balancers, auto-scalers, firewall policies, SQL instances, and VPC networks.
- Deployed **CI/CD** pipeline in **GitHub Action Workflow**, using Packer & bash scripts in Linux to consume custom machine images for efficient and consistent environment provisioning.
- Implemented **SystemD** unit in **CentOS** to auto-run applications without intervention using metadata startup script configurations, ensuring seamless and autonomous application management.
- Invoked GCP **Pub/Sub** message queue with Lambda function for tracking of emails using **Bucket** Storage Objects, and integrated an auto-scaler load balancer with URL mapper for backend service horizontal scaling through postman collection testing.

### Equinox Partner Llc, Research Assistant | [Research Paper IEEE](#) |

- Implemented AR Mobile application using, **Unity**, **ArCore**, wireframes & 3D model enhancing medical procedures by 40%, facilitating remote communication with healthcare professionals, providing surgical expertise & bridging gaps in healthcare access.

### Scrum Planner Application | [Link](#) |

- Anonymous user feedback platform services for Project Managment. Product Feature- **Anonymous Sign-In**, Dashboard Time Limit, Infinite Scroll, **Debouncing**, **Memoization** in React, **Lazy Loading**, React Router, Context API, **Firestore** Storage, &Auth.

### Google Developer Students Club

March-2024

- Tech-meetups, Open Source Contributions, Hackathons, Coding Competition and Artificial Intelligence Conferences.