

TARUN SANKHLA

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Github: [tarunsankhla](#) | LinkedIn: [tarun-sankhla](#) | [portfolio](#) | [tech-blogs](#) | [stackoverflow](#)

EDUCATION

- Master of Science in Information Systems, Northeastern University,** GPA: 4/4 August 2023 - May 2025
Relevant Courses: Application Engineering Design, Web Design and User Experience Engineering(UI/UX design), Network Structures, Cloud Computing with MicroServices, and Program Data Structures & Algorithms OOPS(Object Oriented Programming).
- Bachelor of Engineering, University of Mumbai,** August 2016 - July 2020
Relevant Course: User Interaction Design, Computer Architecture and System Design, Database Management System, Operating Systems, Web Application Development, Applied Artificial Intelligence, and Design Patterns.

TECHNICAL SKILLS & INTEREST

- **Language and Database:** C/C++, Python, Javascript, HTML, C#, JAVA, Terraform, PostgreSQL, MongoDB, AWS, GCP, CSS.
- **Technical Skills:** Node JS, React JS, Vue JS, Jquery, Redux, Angular, Typescript, Kafka, Spring Boot, .Net, Redis, Elastic search.
- **Others:** Version Control, GitHub Actions Workflow, Unix/Linux, IP/TCP, JIRA, Docker, Kubernetes, UDP, NAT, Excel, and Figma.

PROFESSIONAL EXPERIENCE

- SOFTWARE DEVELOPMENT ENGINEER, RAZORPAY SOFTWARE PVT LTD.(FINTech)** July 2022 - August 2023
- Automated the integration of insurance endorsement, annual renewals, and refund payments using **JAVA Maven**, propelling the company to pioneer payroll and insurance services; resulting in a \$20k increase in monthly revenue.
 - Engineered a retry mechanism algorithm for unsuccessful failed **Cron Jobs** in **Node js & Express js**. Designed a system capable of leading linear/exponential retries, prioritizing without compromising key operational systems, and reducing bug latency time by 70%.
 - Devised HTTP **JobQueue** service for **REST** API task completion and processing of crucial data to address challenges caused by server issues and third-party downtime; leading to a reduction in downtime by 32% per month.
 - Revitalized Payroll banking System achieving 82% Client Satisfaction by transforming the SalaryRevision and Arrears system with a user-interactive interface and client-focused development using **React JS** for the front end.
 - Developed a Robust Server-Side Application overseeing SMEs, Mid-level Enterprise cash flow, payouts, contractor payments, and overall business objectives & IT operations and deployed using **CI/CD** pipeline using **Terraform** and **Kubernetes**.
 - Implemented **Salesforce** for lead intent capture, facilitating management of customer intents from multiple sources, resulting in a 25% increase in lead conversion rates.

- SOFTWARE ENGINEER ASSOCIATE, CAPGEMINI TECHNOLOGY SERVICES** January 2021 - July 2022
- Spearheaded Agile development of the Orbit Studio Application, a pivotal software asset within the Baker Hughes and GE operational framework, leveraging **Postgres SQL**, MVC framework, FastAPI, **Python**, and **C++** to enhance overall system functionality.
 - Integrated **Kafka** with **producer-consumer middleware architecture** for fault-tolerant alerts in real-time for Bently Nevada, ensuring continuous operation and improving system reliability.
 - Deployed and hosted the web application on **Amazon EC2** using **Kubernetes** on **AWS**, with the deployment processing automation solutions through **Jenkins**. Configured an **Amazon S3** bucket to store and retrieve media files
 - Implementing the analysis dashboard for using **DevOps/cloud** in Azure and Netwois karking teams' resources further amplifies operational efficiency, contributing to a streamlining transaction and data visualization of workflow through the user interface.

- BACKEND DEVELOPER, BITKRAFT TECHNOLOGIES LLP** November 2020 - January 2021
- Applied advanced algorithms, to analyze 30 years of stock market data from NSE and BSE, enhancing the relationship between cross-functional entities, fostering analytics capabilities, conducting analysis, and modeling.
 - Developed Cipher in **NEO4j** (NoSQL graph database), facilitated entity relationship mapping in ETL framework with Python and Django, and leveraged TensorFlow for enhanced connections. Earned Neo4j Graph Academy certification.

- FULL STACK DEVELOPER INTERN, HARRIER INFORMATION SYSTEM,** November 2019 - February 2020
- Developed a register web module for GOVEVA using **MongoDB**, **Angular**, efficient site scraping, & data extraction in JSON.
 - Led a team initiative for product management, implemented a compliance register end-to-end with software development life cycle, streamlining the creation of 45 web pages for seamless data storage & compliance management using **Node js** and unit test using Zest.

PROJECTS, RESEARCH PAPERS & ACTIVITIES

- Cloud-Based Healthcheck Application** (Node.js, MySQL, GCP, Terraform, GitHub Workflow, CI/CD, Packer) March-2024
- Streamlined terraform-based cloud Infrastructure for the deployment of web services, VPC, Compute Instance(VMs), Load Balancers, Internet gateway, (IAM) Service accounts, **firewall policy**, SQL instance, **DNS** Recordset, and global address
 - Deployed CI/CD in **GitHub Workflow** with integration testing & built precooked custom machine images in **Packer** with bash script.
 - Implemented **SystemD** unit to auto-run applications without manual intervention to run in the backend in CentOS and test automation.
 - Deployed an auto-scalable infrastructure in **GCP**, analyzing and monitoring logs and metrics analytics in real time.
 - Invoked **GCP Pub/Sub** message queue with **Google Cloud function** to track email from SQL instances on private IP.

- EQUINOX PARTNER LLC, Research Assistant - [Research Paper IEEE](#)** December 2020
- Implemented AR using **Android mobile app**, **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 ([Checkout](#))** March 2022
- Anonymous user feedback platform for PM. 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 - tech meetups, Open Source, and communication skills workshops** March-2024