TARUN SANKHLA

sankhla.t@northeastern.edu | 857-693-4738 | USA

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, Network Structures, and Cloud Computing with MicroServices, and Algorithms.

Bachelor of Engineering, University of Mumbai,   August 2016 - July 2020
Relevant Course: Advanced data Structure and Analysis of Algorithms, User Interaction Design, Enterprise Network Design, Computer Architecture and System Design, Database Management System, Operating Systems, and Web Application Development.

TECHNICAL SKILLS & INTEREST

- **Language and Database:** TypeScript/Javascript, C++, Python, JAVA, PostgreSQL, AWS, Terraform, MongoDB, Ceph, GCP, Golang
- **Technical Skills:** Node JS, React JS, SpringBoot, Kafka, Jquery, Redux, Angular, REST API, SASS, dotNet, Laravel, Airflow, SCSS
- **Others:** Git Version Control, Linux, Figma, Neo4j, Docker, Kubernetes, NPM, WebScraping.

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER, RAZORPAY SOFTWARE PVT LTD.   July 2022 - August 2023
- Automating the integration of insurance endorsement, annual renewals, and refund payments, propelling the company to pioneer payroll and insurance services. Resulted in a $20k increase in monthly revenue.
- Revitalized Payroll System for 82% Client Satisfaction - Transformed the Salary Revision and Arrears process with an **interactive interface**. Elevated the experience for clients, enhancing efficiency in managing payroll and arrears.
- Contributed to Robust Server-Side Applications overseeing SMEs, Mid-level Enterprise cash flow, payouts, contractor payments, and overall business operations.
- Engineered and implemented a retry mechanism for unsuccessful **Cron Jobs**. Designed a system capable of linear or exponential retries, prioritizing jobs without compromising key operational systems and producing data visualization statistics.
- Devised **HTTP JobQueue** for Seamless Task Completion and processing of crucial data to address challenges caused by server issues or third-party downtime. Ensured reliable completion of tasks even in adverse conditions.

SOFTWARE ENGINEER ASSOCIATE, CAPGEMINI TECHNOLOGY SERVICES   January 2021 - July 2022
- Spearheaded the development of the Orbit Studio Application, a pivotal software asset within the Baker Hughes and GE operational framework, leveraging SQL, APIs, Python, and C++ to enhance overall system functionality.
- Demonstrated expertise in system integration by adeptly implementing **RESTful Web services** - HttpClient across diverse network applications. The initiative facilitated seamless data interchange, optimizing critical processes and overall operational cohesion.
- Engineered a prototype system to automate procedural calls within the deployment system, resulting in a remarkable 23% boost in productivity. Implementing the WPFEditor application further amplified operational efficiency, contributing to a streamlined and helping in advanced analytics and visualization of workflow.

BACKEND DEVELOPER, BITKRAFT TECHNOLOGIES LLP   November 2020 - January 2021
- Utilized advanced algorithms to analyze three decades of stock market data from NSE and BSE, enhancing the relation between data entities for analytics capabilities and performing analysis & modeling.
- Implemented **Cipher in NEO4j** to construct a graph database, facilitating relationship mapping among entities in an ETL framework.
- Achieved Professional **Certification** from the Neo4j Graph Academy, demonstrating an expert command of the Neo4j graph database.

FULL STACK DEVELOPER INTERN, HARRIER INFORMATION SYSTEM,   November 2019 - February 2020
- Developed a register creation web module for GOVEVA using the **MERN** stack, leveraging NPM (Node.js) for efficient site scraping and data translation into XLSX and JSON.
- Led a team initiative to design and implement a compliance register, streamlining the creation of web pages for seamless data storage & compliance management. The application significantly enhanced data processing efficiency and compliance procedures.

PROJECTS, RESEARCH PAPERS & ACTIVITIES

EQUINOX PARTNER LLC (SYSTEM DEVELOPER), Research Assistant
- Designed an Augmented Reality (AR) magazine application using Unity, ArCore, 3D modeling, and Node.js. Utilized image targets within magazines for business marketing.
  - Published Research Paper - Title 'A Pragmatic Approach in Enhancing the Health Care Industry Using Augmented Reality and Virtual Reality' Presented at the IEEE International Conference on Communication Information and Computing Technology.
- **Scrum Planner Application (Checkout)** -- Developed an anonymous user feedback platform for project managers. Involves Anonymous Sign-In, Dashboard Time Limit. Enhanced performance through various techniques, including Infinite Scroll, Integrated Debouncing, Code splitting in React, Memoization in React, Lazy Loading, React Router, Context API, Firebase Storage, &Auth.

- ❖ **Husky Syster Code**: Event Coordination Committee, of a community of developers and tech enthusiasts, we host tech events and meetups on the Northeastern Boston Campus, as well as hackathons and coding competitions.
- ❖ **Google Developer Students Club member**, organizing tech events, community meetups, and boot camps.
- ❖ Leverages GIS expertise to map water resources in drought-stricken districts, collaborating with **Art of Living NGO**.
- ❖ Developed a Health Care web application with a user base of **6k**+ active users. Published Research Paper - 'Developing Markerless Augmented Reality for Furniture Mobile Application' in International Journal of Engineering and Manufacturing (**IJEME**).