TUSHAR VARMA

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems ***New York, NY***
Master of Science (M.S.) in Computer Science Fall 2021 - Present

University of Mumbai, K.C. College of Engineering ***Mumbai, India***
Bachelor of Engineering (BE) in Information Technology July 2018
GPA: 7.38/10

RELEVANT COURSEWORK

Algorithm & Computing Theory | Parallel & Distributed Computing | Internet Computing

TECHNICAL SKILLS

Programming Languages:	Java, Python, JavaScript
Web Development:	Spring MVC, Spring Boot, Hibernate, TCP/IP, SOAP, Kafka, REST, AngularJS, HTML, CSS
Operating Systems:	Windows, Linux
Database:	PostgreSQL
Software/Tools/Cloud:	Docker, Kubernetes, Git/GitHub, Visual Studio, Jenkins, AWS, Microsoft Azure, JFrog,

SonarQube, Jira, PuTTY, WinSCP, Eclipse, IntelliJ, Microsoft Office, etc.

ACADEMIC PROJECTS

Intra-Campus Coding Exam System with Testing and Evaluation Oct 2017 – Mar 2018
- Collaborated in a team of three to develop a full stack web application which can be used within an organization or campus to conduct coding examination and automate the testing process of the codes and getting results.
- Developed the application using PHP, Code Ignitor Framework, HTML and Bootstrap for the front end, Java for the back end and MS-Access for the database.

EXPERIENCE

Pace University – Seidenberg School of Computer Science and Information Systems ***New York, NY***
Graduate Research Assistant – Information Security Sep 2021 – Dec 2021
- Research current information on real-time stock market data to support faculty in a paper publication.
- Extract large volumes of high-frequency financial data from various data sources, such as Google Finance, Yahoo Finance, and Bloomberg, and load data into Excel and SQL to develop visualizations that offer valuable insights.
- Facilitate computer science courses and labs in collaboration with faculty, guiding 50+ students and preparing lectures.

National Commodity and Derivatives Exchange (NCDEX) ***Mumbai, India***
Software Developer Aug 2018 – Aug 2021
- Designed and developed full-stack web applications and services using Java, Spring, JavaScript and AngularJS according to client and exchange requirements to provide an online trading platform, enrich the real-time trading experience, and allowing the business to increase product deployments.
- Led a team to develop an API in Java for client applications to upgrade to a high-throughput Trade Reports Generation System, which allowed faster generation and download of trade summary reports.
- Implemented FX exchange connectivity in FIX Protocol, ensuring reliable communication between application and exchange.
- Achieved load balancing of client requests in multithreaded applications and services using Thread Executor Service and implementing a shared queue model for request processing threads, resulting in resolved thread throttling and waiting problems.
- Collaborated in a team of three to revamp a full stack web application which serves as a Management Information System (MIS) for the clients by fetching the live procurement data and improving the legacy code performance.
- Stored the live data in the HSQL database and loaded the live data at periodic time intervals using JavaScript AJAX requests.