SHANTANOO SINHA

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SUMMARY

Team player with Masters degree in Computer Science & 9 years of software development experience seeking an opportunity as a Software Engineer. Offering a working knowledge of software development, algorithms, data structures, networks, & databases.

WORK EXPERIENCE

Software Engineer Intern   **CME Group**, Chicago, USA   May 2020 – Present

- Developed & enhanced internal web application in C#, .Net MVC, MSSQL, Oracle, jQuery, SignalR & Excel libraries
- Programmed complex VBA Macro dashboard reports & integrated with internal application using C#, Oracle & EPPlus
- Created automated testing regression suite in C#, .Net MVC using MSTest reducing manual testing by over 70%

Student Assistant   **Illinois Institute of Technology**, Chicago, USA   September 2019 – May 2020

- Provided technical assistance to students, faculty, staff, tenants, guests, and visitors with the campus technologies
- Troubleshooted software applications, computers, mobile devices, printers, phones AV, printer & plotter issues

Software Engineer   **IHS Markit**, Noida, India   July 2015 – August 2019

- Devised microservices based architecture using Java, SpringBoot, Hibernate & REST API for the distribution of data to clients
- Implemented a CLI application in Java, HTMLUnit to web-scrape & download 1000+ monthly reports thus saving manual efforts
- Remodeled the UI using Angular 6, Typescript, JavaScript & Bootstrap and improved application performance over 50%
- Reduced application deployment time up to 80% by writing Puppet manifests for 50+ production applications
- Recognized with 'Star Award' & 'Most Valuable Player' award for top performance across the organization

Software Engineer   **Tata Consultancy Services**, India   December 2011 – July 2015

- Led, supervised technical direction, mentoring and training for a team of 8 software developers
- Developed Timesheet entry & Claim-reimbursement modules using Java, Struts, jQuery, JavaScript & MySQL
- Automated build and deployment by building a generic automated CI/CD pipelines using Jenkins, GitLab & Docker
- Analyzed and optimized complex slow running SQL queries and reduced the running time by 30%
- Awarded 'Star of the Learner's Group' award in a batch of 40 trainees

Software Developer Intern   **Sahara India Limited**, Lucknow, India   July 2010 – August 2010

- Coded an internal web application tool for Online Letter Processing System using ASP.Net, C#, MS SQL, Visual Studio to store, forward & review official documents electronically and automate management of letters
- Programmed archival process and designed a daily end-of-day batch job to archive old data and files

ACADEMIC PROJECTS

Peer to Peer File Sharing (Java, RMI, Multi-thread, Eclipse, Git, Vagrant, Fedora) **Source Code**
- Designed a Napster style & decentralized Gnutella style P2P file sharing applications using Java, RMI & multithreading
- Implemented RSA asymmetric cryptography without using in-built APIs for network traffic encryption and improving data security

Bigdata Analysis of Yelp Dataset (Hadoop, Spark, Hive, Pig, Python, Tableau) **Source Code**
- Analyzed Yelp dataset by creating a data pipeline in Hadoop to import the data in HDFS and Apache Hive
- Transformed the data using Spark & Pig and presented dashboards using Tableau Desktop visualizations

Database Management System (C, Visual Studio, Git, Linux) **Source Code**
- Implemented a small Database Management System in C with a disk-based B+ tree index structure & Buffer Pool implementation

PERSONAL PROJECTS

Flixster (Java, Android, Async HTTP, YouTube Player View, Glide) **Source Code**
- Designed Flixster android app using Java for users to browse movies from the The Movie Database API and watch movie trailers

TECHNICAL SKILLS

Java	PL/SQL	REST API	jQuery | JavaScript	GitLab CI/CD | Jenkins
Android (Java)	Spring Boot	Hazelcast Caching	Bootstrap	Maven
C#	JPA	ASP.Net MVC	HTML | CSS	Git | SVN
Python	Hibernate	Angular 6	Puppet	Markit (CADIS) EDM

EDUCATION

Master of Science - Computer Science	Illinois Institute of Technology, Chicago	3.5/4.0	August 2019 - May 2021
Bachelor of Technology - Information Technology	Gautam Buddh Technical University, India	3.0/4.0	August 2007 - July 2011