

Pankaj Shere

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PROFILE

I am a Software Engineer specialised in Database technologies and Dev-Ops. I work with Python, Bash, SQL, C and MongoDB. Web Programming with PHP and Django. I am also interested in Big Data technologies.

EXPERIENCE

Database Engineer, TMP Worldwide, New York 2013 2016

- member of architecture team that worked on developing customised web solutions for clients and monitor, upgrade and operate the backend infrastructure.
- database code reviews, tuning and optimisation of queries.
- designed and maintained backend infrastructure consisting mostly of MSSQL, ElasticSearch and MongoDB.
- Linux Administration and writing batch scripts for routine tasks.
- supporting continuous integration via Automated deployments using Bamboo and Git.

Database Engineer, WorldNow, New York 2008 2013

- worked as Database Administrator for WorldNow which provides CMS solutions for local TV stations in the US.
- designed and maintained backend infrastructure consisting of SQL Server, MemCached and NetScaler for load balancing web requests for more than 20 million unique visits to its sites.
- designed and implemented clustering, high availability and DR solutions.
- implemented automated deployment solutions.

Database Administrator, EConsult, Inc, USA 2006 2008

- worked as a Database Administrator for various clients based in the North East region of US.
- supported Database backends consisting mostly of MSSQL and MYSQL databases.
- implemented high availability and clustering architecture for MSSQL on the Windows platform.

Lab Teaching Assistant for C, Idaho State University, Idaho US 2003 2005

- Teaching Assistant for CS 101 course at Idaho State University.
- involved in teaching the fundamentals of C programming to undergraduate students.

PROJECTS

Architecting MongoDB infrastructure (TMP Worldwide, New York)

- implemented a MongoDB replica-set for storing user profile data.
- implemented an ElasticSearch cluster for predictive search.
- support for developers with optimising MongoDB queries and managing day to day operations.

Encryption of Data at Rest using Vormetric (TMP Worldwide, New York)

- implemented encryption on data at rest using industry best practises.
- thorough analysis was done to identify and test different technologies and their impacts on performance.

Weather Data manipulation using ETL technologies (WorldNow, New York)

- designed and maintained weather data ETL packages.
- daily weather data was transformed and loaded in the database using scheduled ETL technologies.
- reporting and data visualisation using Python libraries such as matplotlib and pygal.
- created custom scripts to wrangle data and load it in the database.

Upgrade of Database Software (EConsult, WorldNow, New York)

- performed upgrades from SQL 2000 to SQL2005 and SQL2005 SQL2008 R2 for the entire database environment consisting of 8 production servers.
- involved in rewriting and testing incompatible stored procedures.
- performance optimisation and monitoring for database queries.
- setup MS Reporting Services for internal reporting.

EDUCATION

University of Mumbai, Mumbai, India — BE Instrumentation Engineering, 2002

Idaho State University, Idaho, USA — MS Controls Engineering 2005

BLOG

<https://pjshere.github.io/>

LANGUAGES

Python, SQL, C, Bash, JavaScript

MARKUPS

HTML, CSS

OS

Windows, Linux

CERTIFICATION

MongoDB