

Shilpi Sirohi

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Senior Software Engineer

Capable engineering professional with solid history of on-time delivery of new and useful features to help businesses adapt, evolve, and analyze data in real-time

AREAS OF EXPERTISE

- Proactive, modern engineering mindset based on best practices to broaden the tech stack and introduce new, unique, and scalable features including analytics, reporting, visualizations, and computation.
- Extensive, hands-on knowledge in design, development, and quality assurance of Cloud based architectures from user stories and code reviews to detailed acceptance testing.
- Self-starting software developer proficient in multiple languages and tools to solve difficult technical and business challenges ranging from back-end scalability to analytical functions and aggregation.
- Outstanding interpersonal and communication strengths leveraged to train users, troubleshoot system issues, and ensure total client satisfaction.

TECHNICAL PROFICIENCIES

Programming: Python, SQL, PL\SQL, Core Java, JavaScript

Web: HTML5, CSS, Bootstrap, NodeJS, Flask, jQuery, Restful API, AWS (Cloud and Distributed Computing)

Machine Learning: NumPy, pandas, scikit learn, TensorFlow

Tools: Eclipse, SQL Developer, PyCharm, Jupyter notebook, Visual Studio, Git, Tortoise SVN, Jira, Slack

Professional Experience

Center for Urban Transportation Research, University of Southern Florida, Tampa, Florida

Graduate Research Assistant 1(2/2019 – Present)

Build web-based visualization tools with automation of data load and analytics. Create web-based visualizations based on analysis of motorcycle accidents. Verify accuracy and completeness of data.

Oracle Corporation, Hyderabad, India

Senior Applications Engineer (2/2014 – 12/2018)

Built Cloud based applications, designed user interfaces, and trained three customers to use web-based portal. Converted Python code to Java via object-oriented software methodologies. Wrote SQL procedures, functions, and classes in Oracle 12c. Wrote UNIX shell scripts and automated jobs in cron scheduler. Setup environment and validated, cleansed, and loaded user data with configuration and running of initial processes. Trained interns on products and mentored five colleagues. Organized company-wide events as member of Oravation committee.

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Key Achievements:

- Launched new UI feature with customizable filters for displaying graphs by leading two developers to deliver major DataRaker product integration with Meter Data Management (MDM) Oracle utility.
- Introduced mobile and desktop-friendly support portal by writing end-to-end code to view logs, status, and schedules enabling users to start and stop processes from front end.
- Earned recognition for improving performance of loading pages on web portal.
- Won cash award at Annual Innovation Summit for recommendation to automate formerly manual process of creating customer XMLs with new Windows Desktop tool in JavaFX.
- Successfully pitched idea during Utilities Hackathon with subsequent development and implementation of automated process for loading customer data with tracking and error alerts.
- Conceptualized and released feature to show meters data, transformer data, grids data, and customer data on maps using JavaScript library with longitude and latitude positioning.
- Analyzed millions of records such as calculations of missing meter readings and data discrepancies by writing SQL packages.

Tech Mahindra, Hyderabad, India

Software Engineer (12/2010 – 2/2014)

Engaged with clients to understand and document requirements, prioritize features, and finalize development schedules. Wrote code and completed unit testing to receive XML files from MQ, parse files, and load data into database. Wrote PL/SQL packages to insert and read Java classes from Oracle DB. Carried out performance unit testing, system testing, user acceptance testing, and business verification testing. Provided post-production support. Served as secretary for Fun at Work Committee.

Key Achievements:

- Generated 25% increase in profitability in APAC and Americas for Thomson Reuters by delivering capability to calculate total cost of products and services per subscriber.
- Recognized as top scorer in completion of three-month onboarding program.

Education and Training

Uttar Pradesh Technical University, Uttar Pradesh, India
Master of Science in Computer Application, 2010

Ch. Charan Singh University, Uttar Pradesh, India
Bachelor of Science in Mathematics and Statistics, 2007

University of South Florida, Tampa, Florida
Master of Science in Computer Science, *expected December 2020*

— Coursera Certifications —

TensorFlow in Practice Specialization ~ Deep Learning Specialization
IBM Data Science Professional Certification