Prateek Sharma

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EDUCATION

Rochester Institute of Technology,   Aug 2023 – May 2025
Master of Science, Computer Science (GPA 4/4)
 Relevant coursework: Artificial Intelligence, Big Data, Advanced OOP (JAVA), Data Structures (Python)

Rajasthan Technical University,   Aug 2011 – Jul 2015
Bachelor of Technology in Electronics and Communications (GPA 3.6/4)

TECHNICAL SKILLS

Languages: Python, Java (Spring-Boot), JavaScript, Node.js (React-Redux), HTML, CSS, SHELL Scripting, PHP
Databases: SQL/PL-SQL, MongoDB, MySQL, Oracle SQL Developer
Frameworks/Technologies: REST API, Pandas, sklearn, numPy, matplotlib
DevOps & Tools: Git, Jenkins, Docker

WORK EXPERIENCE

Tilaverse Inc, Software Developer - Intern   May 2024 – present | Remote
- Led a software development team and coordinated with management to align goals, achieving a 30% improvement in project delivery times. Communicated effectively across teams to synchronize workflows and ensure cohesive project execution.
- Contributed to the planning and development of a new product, proposing a modern tech stack (ReactJS with TypeScript, Node.js, MongoDB, PostgreSQL, and Python with Django) that enhanced performance and scalability, leading to a 25% increase in development efficiency.
- Updated the main website to use PHP as a backend, increasing interactivity and data processing capabilities by 40%. Implemented Docker for seamless deployment, and collaborated with DevOps to ensure a robust CICD pipeline.

Amdocs

Advanced Software Developer   Jun 2021 – May 2022 | Pune, India
- Spearheaded the development and deployment of two innovative Microservices for product price discovery, utilizing Java and Kafka to reduce runtime by 40%, resulting in a 20% increase in efficiency.
- Led the technical assessment and recruitment of over 30 candidates, enhancing the skill set of the Microservices team with expertise in Java and SQL by 50%, leading to a more proficient and agile team.
- Implemented project-specific training programs and mentorship initiatives for new hires, resulting in a 30% increase in team productivity through improved knowledge transfer and utilization of tools like Git and Jenkins.

Software Developer   Nov 2018 – Jun 2021 | Pune, India
- Modified and maintained the frontend of a web application using React-Redux, SCSS, and JS, achieving a 25% increase in user satisfaction allowing clients to place orders for products and services, enhancing overall user experience.
- Developed and enhanced several APIs using Java Spring Boot, Kafka messaging, Swagger, XML, REST APIs, and Apache POI, resulting in a 30% improvement in backend performance and streamlined data migration processes with a new bulk workflow API for CSV file uploads.
- Created and optimized SQL queries in Oracle database for data extraction and analysis, reducing workflow bottlenecks by 20% and identifying critical bugs, leading to more efficient feature planning and execution in collaboration with architects and team leads.

Infosys

Software Developer and Tester(Data Analytics and Automation)   Jan 2016 – Nov 2018 | Pune, India
- Utilized SQL, MySQL, Oracle SQL, XML, and CSV to manipulate data across diverse datasets, leading to the successful extraction and loading of data into HIVE. Achieved a seamless data flow and accessibility for analytical processing.
- Engineered a Java application to automate quality assurance processes for data integrity post-transformation and loading. This solution significantly improved data accuracy and reliability by 40%, enhancing decision-making processes.
- Adapted Java programming to optimize data handling procedures for extensive datasets with varying formats. Automation of repetitive tasks improved operational efficiency by 30%, making data more usable for analytics applications.

Systems Engineer   Aug 2015 – Jan 2016 | Mysore, India
- Orchestrated a comprehensive analysis of training program effectiveness, leveraging Python and SQL/PL-SQL to track employee progress and performance, resulting in a 12% increase in project completion efficiency.
- Collaborated with cross-functional teams to integrate cutting-edge technologies into the training curriculum, leading to a 25% reduction in onboarding time for new employees and enhancing overall departmental productivity by 30%.
- Spearheaded the development of a custom C# tool to streamline scheduling processes for educational sessions, reducing conflicts and inefficiencies by 50%, ultimately saving the organization $100K in operational costs.

PROJECTS

Data Analyst, Election Data Insights for AtliQ Media   May 2024 – May 2024
- Led a comprehensive analysis of 2014 and 2019 Lok Sabha elections data, utilizing Python and pandas, resulting in a 30% increase in data accuracy and visualization clarity.
- Identified key insights such as a 25% shift in voter preferences and highlighted top constituencies with the highest NOTA votes, enhancing understanding of electoral patterns.
- Created and presented impactful visualizations, increasing audience engagement by 40%, and uploaded the complete code solution to GitHub for transparency and further analysis.

Unveiling E-Commerce Customer Behaviors   Feb 2024 – Apr 2024
- Led the analysis of a 5GB dataset on an eCommerce platform to uncover customer behavior patterns, enhancing targeted marketing strategies and personalizing customer experiences.
- Applied advanced data analytics techniques, including machine learning algorithms, to segment customers and predict purchasing behaviors, increasing sales conversions by 50%.
- Developed and implemented a dynamic dashboard using python, postgres, numpy, seaborn, matplotlib, pandas, providing real-time insights into customer trends, significantly improving decision-making for marketing and sales strategies.

TCC Schedular   Jun 2023 – Oct 2023
- Developed a robust mentor-mentee matching algorithm using React JS, J2EE, and MySQL, resulting in a 70% increase in successful matches and connections made within the system.
- Implemented a user-friendly interface for the automated scheduling system, reducing manual intervention by 80% and saving an estimated 15 hours per week for administrative staff.
- Streamlined data management processes by integrating real-time feedback mechanisms into the system, leading to a 50% improvement in mentor-mentee communication and engagement levels.

Low-Cost 3D Surround Scanner   Jun 2014 – Feb 2015
- Reduced the Cost of a 3D surround scanner using MATLAB and Image Processing coupled with a low-cost digital camera and line LASER to achieve 80% cost reduction with the same accuracy.
- Granted 23500 INR from the Institute of engineering, Jaipur for developing the project.
- Developed and implemented complex algorithms in C, orchestrating precise camera movements and laser scanning sequences.

AWARDS

MERIT SCHOLARSHIP, RIT, Received a 40% scholarship for the Master's program

Insta Award, Infosys, Recognized as the Most Innovative Employee

GEMS OF SKIT, SKIT, Awarded for Best Project

CERTIFICATIONS

Intro To Machine Learning

Pandas

SQL(Advanced), Hackerrank

React, Hackerrank

EXTRACURRICULAR ACTIVITY

- Volunteered at computer and robotics workshops for underprivileged kids (2013, 2018), fostering interest in STEM.
- Founded the SKIT Robotics Club, leading embedded systems workshops and expanding technical education outreach.