

Deepak Singh

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EDUCATION

Stevens Institute of Technology

Hoboken, NJ

Master of Science - **Information Systems – School of Business (STEM)**

3.9/4.0 Expected May 2026

Coursework: Data Analytics and Machine Learning, Big Data Management, Financial Decision Making, Project Management, IT Strategies, Digital Innovation, Process Innovation and management

WorldQuant University

New Orleans, LA

Master of Science – **Financial Engineering**

Expected Dec 2026

Coursework: Financial Econometrics, Portfolio Management, Risk Management, Derivative Pricing, Deep Learning for Finance

Siddhartha Institute of Engineering and Technology

Hyderabad, India

Bachelor of Technology - **Computer Science**

Aug 2018 – Dec 2022

Coursework: Operating Systems, Distributed Systems, Data Structures and Algorithm, Computer Architecture, SDLC, Software Testing, Agile and Scrum Methodologies, Multi-Threading, Cloud Computing

SKILLS & TECHNOLOGIES

Programming: C++, Python, Java, PHP, Bash Scripting.

Web & Front-End: HTML5, CSS3, JavaScript, Typescript, Node.js, React.js, Next.js, RESTful APIs, jQuery, Tailwind CSS

Database: Oracle, PostgreSQL, MongoDB, Redis, Apache Spark, GCP, AWS Cloud Services, SQL, NoSQL

Software and Tools: MS Office 365, RabbitMQ, MQTT, Git, Docker, Jira, Agile, Confluence, Selenium, Postman API, Zoho CRM

Frameworks: Angular, Vue, NextJS, Django, Flask, React Native, Svelte, Express, Spring, Laravel, REST APIs, Figma, Hadoop

Machine Learning: TensorFlow, PyTorch, scikit-learn, PySpark, NumPy, Pandas, SciPy, Jupyter Notebook

Certifications: PL/SQL, MySQL, Docker, Jenkins, Kubernetes, C, C++, Cyber Security (AICTE), Introduction to Data Science (IBM)

EXPERIENCE

RobotSpace Robotics and Automation Private Limited

Hyderabad, India

Software Development Engineer

Oct 2023 – Jul 2024

- Developed Enterprise Resource Planning system to streamline communication between machines, robotic arms, and operators, via RESTful APIs, leading to a 5x boost in operational efficiency
- Designed and implemented interactive front-end dashboards for real-time operations scheduling, leveraging react frameworks. Optimized remote tracking and automation, reducing production downtime by 30%
- Built a web application from scratch enabling real-time control, monitoring, and logging of hardware machine operations, integrated C++ modules on the hardware system and optimized remote interactions via API-based workflows
- Deployed SaaS applications on Linux environments, implementing CI/CD pipelines to streamline Agile development workflows, implemented automated testing, conducted code reviews, improving deployment efficiency by 15%

GKB Labs LLP

Hyderabad, India

Associate Software Developer

Jan 2023 – Sep 2023

- Developed a custom CRM tool Rep Donkey to automate and enhance sales workflows using Laravel, jQuery, PHP, SQL, and PostgreSQL, resulting in a 25% increase in sales team performance
- Led the planning and implementation of system design, data modeling, and functionalities for diverse client needs. In collaboration with cross-functional teams to enhance the functionality, improve user engagement by 30%
- Managed cloud operations and executed database optimization strategies using PHP and SQL, resulting in a 40% improvement in data retrieval times
- Optimized inventory and sales processes by leveraging data insights and automation. Troubleshooted system issues and ensured smooth delivery, resulting in a 20% reduction in operational costs and enhancing decision-making capabilities.

PROJECTS

Real-Time Stock Price Forecasting Using LSTM

Nov 2024 – Dec 2024

- Built an **LSTM-based model** to predict real-time stock prices for MAANG companies using historical and live data via the Yahoo Finance API
- Achieved **high accuracy with RMSE of 17.77 and MAPE of 1.91%**, providing dynamic insights for decision-making

Secure Cyber-Physical System Manager

Jan 2022 – Mar 2022

- Engineered a robust **authentication process** utilizing advanced **neural network** techniques, which processed over 1,000 simultaneous user requests without compromising data integrity or accessibility in the cyber-physical management system.
- Built task management and **data visualization** tools using Python, MySQL, HTML, and JavaScript to enhance operational oversight