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: Machine Learning, Big Data Management, Financial Decision Making, Project Management,
IT Strategies, Digital Innovation, Process Innovation and management, Supply-Chain Management

WorldQuant University New Orleans, LA
Master of Science – **Financial Engineering** Expected Dec 2026
Coursework: Financial Decision Making, Portfolio Management, Risk Management, Data Analytics, Business Strategy

Siddhartha Institute of Engineering and Technology Hyderabad, India
Bachelor of Technology - **Computer Science** Aug 2018 – Dec 2022
Coursework: Probability, Statistical Modeling, 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, Dockers, Jira, Agile, Confluence, Selenium, Postman API, Zoho CRM
Frameworks: Angular, Django, Flask, React Native, Svelte, 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