Manisha Goyal

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EDUCATION

New York University (NYU)

Masters in Computer Science | Sep 2023 – May 2025 (expected) | New York, NY

- Courant Institute of Mathematical Sciences, GPA: 4.0 / 4.0
- Relevant Coursework: Fundamental Algorithms, Operating Systems, Programming Language, Data Science, Artificial Intelligence

University of Mannheim

Exchange Semester, School of Business Informatics & Mathematics | Aug 2017 – Dec 2017 | Mannheim, Germany

- Relevant Coursework: Large-Scale Data Management, Text Analytics, German Language

Singapore Management University (SMU)

Bachelor of Science in Information Systems Management | Aug 2014 – Apr 2018 | Singapore

- Double Major in Information Systems and Analytics (Advanced Technology)
- Relevant Coursework: Software Engineering, Object Oriented Application Development, Computational Thinking, Data Mining

SKILLS

Languages: Java, Scala, Python, C, C++, Solidity, NodeJS, JavaScript, HTML, CSS, PHP, SQL

Machine Learning: Scikit-Learn, NumPy, Pandas, Matplotlib

Cloud: Docker, Kubernetes, GCP, AWS

Frameworks: SpringBoot, Flask, React, JUnit, Web3.js, Truffle

Others: MySQL, Linux, REST, Apache (Hadoop, Kafka, Spark), Quorum, Tableau, Git CLI, Github client

SDLC and Practices: Agile/Scrum, DevOps, Design Thinking

EXPERIENCE

J.P. Morgan | Blockchain Developer (Associate), Onyx by J.P. Morgan | May 2020 – June 2023 | Singapore

- Worked closely with a global team of 55 developers to develop pioneer blockchain-based payment platforms
- Developed decentralized application from the ground up (Java, Web3) for JPM Coin System, a first-of-its-kind permissioned blockchain network that allows near-instant cross-border liquidity funding for institutional clients
- Led development and live deployment of blockchain ledger (Smart Contracts, Solidity) for Partior, an inter-bank blockchain network enabling multi-currency atomic settlements across major global banks in under 2 minutes
- Built proof-of-concept using Solidity Diamond Standard to make Partior's blockchain ledger scalable and upgradable, contributing to successful transaction of tokenized Singapore government securities on the Polygon network

J.P. Morgan | Big Data & Analytics Developer (Analyst), Cybersecurity | Aug 2018 – Apr 2020 | Singapore

- Developed Cybersecurity Data Lake using Apache Hadoop Ecosystem utilities, enhancing the firm's real-time cybersecurity incident monitoring capabilities by 75% and reducing incident response times by 30%
- Led deployment and production management as global Application Owner of JPMC Cybersecurity Log Collector, that processes and distributes syslog messages, and liaised with global stakeholders to manage critical cyber incidents

J.P. Morgan | Technology Summer Analyst (Intern), Cybersecurity | May 2017 – July 2017 | Singapore

- Built an automation tool to parse and analyze static security scanning results, boosting efficiency in the firm's application security assessments by over 90% and reducing the evaluation times by 80%

Li Ka Shing Library | Data Analyst | Nov 2016 – April 2017 | Singapore

- Analyzed and visualized library's data (Excel, SQL, SAS, and Tableau) to study the correlation between usage of the library's resources and students' academic performance, informing strategic planning for resource allocation

Fujitsu-SMU Urban Computing and Engineering Lab | Software Engineering Intern | Apr 2016 – Jul 2016 | Singapore

- Researched data-driven optimization techniques for maritime-port-urban logistics, and developed an e-Market Platform application that reduced operational costs by 20% and increased logistical efficiency by 40%

PROJECTS

Machine Learning Driven Bookstore Database & Recommendation System | NYU | Sep 2023 – Dec 2023 | New York, NY

- Developed an advanced bookstore database system integrating Machine Learning algorithms (Random Forest and Gradient Boosting for book ratings prediction and K-means for customer segmentation) for inventory management and personalized recommendations

Operating Systems - Simplified Shell Implementation | NYU | Feb 2024 | New York, NY

- Designed and developed a simplified UNIX shell in C, incorporating features like basic command execution, input/output redirection, pipe-based inter-process communication, and job control for process management

Statistical & Text Analysis of Library Training Effectiveness | SMU | Jan 2018 – Apr 2018 | Singapore

- Conducted statistical and text analysis on survey data from 1000 students and wrote a research paper on the effectiveness of SMU Library's training efforts on students' research skills