

# VAIBHAV TYAGI

Dallas, Texas | (425)-246-2234 | [vaibhavtyagi0808@gmail.com](mailto:vaibhavtyagi0808@gmail.com)  
<https://www.linkedin.com/in/iamvaibhavtyagi/> | [Portfolio Website](#)

## EXPERIENCE

### Data Analyst Intern | Ware2Go (A UPS Company), Atlanta

Jan 2023 – May 2023

- \* Designed and executed an automation process utilizing UiPath and C# to import data from Softeon to Big Query. This streamlined data integration between multiple platforms, resulting in enhanced accuracy of up to 100% and elimination of data discrepancies.
- \* Successfully reduced data latency from 24 hours to just 30 minutes. This improvement allowed for the generation of more precise reports within the DOMO platform.
- \* Created a customized automation process to compare prices between UPS and other vendors to gather detailed information on differences in rate based on factors like location, weight, and packaging to facilitate improved decision-making.
- \* Effectively analyzed business reports within Domo and extracted valuable insights from Big Query data. Summarized each report functionality to an excel for future reference by the team.

### Software Engineer Intern | SeekOut, Bellevue

May 2022 – Aug 2022

- \* Executed the data pipeline of the security clearance feature of SeekOut's Website to refresh the security-clearance-tag map using data of last 1.5 years and approximately 6 million job listings.
- \* Developed a project to validate the schema of security clearance input and output files for each step of the data pipeline and report the user for missing key and invalid data field using C# and .NET framework.
- \* Contributed to confluence by documenting the current infrastructure of the data pipeline and schema validation code for future reference and better understanding of the employees.
- \* Reviewed the current architecture of the security clearance feature and suggested better approaches to the algorithm to improve the speed and accuracy.

### Software Engineer | Yardi Systems Inc, India

Aug 2019 - Apr 2021

- \* Maintained Yardi's real estate management database of nearly 20,000 customers by developing complex SQL scripts to fix anomalies and achieve high quality consistent database.
- \* Designed SQL scripts to build reports relating to conversion rate insights, collaborating with 20-25 clients' account managers.
- \* Conducted beta-testing of client's website user interface; analyzed user's feedback and reported bugs, optimizing functioning by 80%.

## SKILLS

Programming Languages	C++, C#, Python, Java, SQL
Web Development	Django, HTML, CSS, PHP, Bootstrap
Operating System	Mac OS, Windows, Linux (Ubuntu).
Libraries and Tools	.NET, Git, Pandas, NumPy, Matplotlib, Scikit-Learn, OpenCV, UiPath
Certifications	'Python Course' from Udemy, 'Programming with C++' from IIT Kharagpur NPTEL

## EDUCATION

### The University of Texas at Dallas, Dallas, Texas | MS in Computer Science

May 2023

### Savitribai Phule Pune University, Pune, India | BE in Computer Engineering

May 2019

## PROJECTS

### Library Management System | Python 3, MySQL, Django, Bootstrap, HTML, CSS

[GitHub](#)

- \* Developed a system for librarians that allows them to search for books, check books in and out, manage fines, and manage borrowers.
- \* Implemented an authentication module that requires users to log in or sign up before accessing data, using a login or signup page and requiring them to enter their credentials.
- \* Created a fine management feature that allows librarians to retrieve and review the latest fine amount for borrowers using a "refresh fines" function, as well as view a list of all paid fines.

### Instant Messaging Application | Java

[GitHub](#)

- \* Built a secure instant messaging system using Java, AES, and RSA encryption algorithms to be secure against well-known attacks on authentication, confidentiality, integrity, and freshness.
- \* Implemented public key cryptography and RSA mechanism for secure authentication in the system. Server generates private keys for clients and uses them to verify authenticity through nonce encryption and decryption.
- \* Developed secure communication protocol using AES 128-bit encryption and unique session keys for message confidentiality.

### Real-time Stock Price & Analysis Bot | Python 3, NSEpy, NumPy and Matplotlib

[GitHub](#)

- \* Developed a bot to give live price of a National Stock Exchange (NSE) stock upon messaging the stock symbol. Created a technical analysis module giving market performance of a stock using data of last 6 months.

### ATM (Automated Teller Machine) Surveillance | Java, OpenCV, and SQL

[GitHub](#)

- \* Coordinated with a team of 2 developers to implement a system to monitor movements in restricted areas using CCTV camera.
- \* Formed an anti-theft module triggering an alarm and notifying security personnel through message in an attempt of theft and false access.
- \* Created a function to ensure transaction of money happened only when user's face was completely visible.

### Crime Reporting System | Python 3, MySQL, Pandas, and Matplotlib

[GitHub](#)

- \* Led a team of 3 to design an application to keep crime reports safe, secure and yield significant insights from the data.