

VAIBHAV TYAGI

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WORK EXPERIENCE

Software Engineer | SeekOut, Bellevue

July 2023 – Present

- * Designed and developed a driver application using C# for transitioning from single client to multiple, improving code generality and reusability, while setting up infrastructure in Cosmos DB, Azure Batch, Blob Storage, and Service Bus Topics.
- * Created an algorithm using C# and Azure SDK to process DeadLetterQueue (DLQ) messages, ensuring their sequence is preserved without disrupting the message order in topic.
- * Automated the build and deployment process using Python, DevOps, and Github SDK, saving significant time by uploading only modules with code changes, thus boosting efficiency.
- * Developed CI/CD pipelines using DevOps and shell script to deploy code from development and release branches, ensuring quick deployment.
- * Built alerts using logic apps and dashboards in Azure to quickly find issues, reduce time spent debugging bugs, and keep track of code performance

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

Jan 2023 – May 2023

- * Implemented an automated data import process using UiPath and C# to seamlessly transfer data from Softeon to Big Query, enhancing accuracy to 100% and eliminating discrepancies.
- * Reduced data latency from 24 hours to 30 minutes, enhancing generated report precision on 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.
- * Analyzed business reports in Domo, extracting insights from Big Query data, and summarized functionalities into Excel for team reference.

Software Engineer Intern | SeekOut, Bellevue

May 2022 – Aug 2022

- * Led the execution of SeekOut's Website security clearance feature data pipeline, refreshing the security-clearance-tag map with 1.5 years' worth of data from around 6 million job listings.
- * Implemented a project in C# and .NET framework to validate security clearance input and output file schemas at each stage of the data pipeline, reporting users on missing keys and invalid data fields.
- * Contributed to Confluence by documenting the current infrastructure of the data pipeline and schema validation code, while also reviewing the security clearance feature architecture and proposing enhancements for improved speed and accuracy.

Software Engineer | Yardi Systems Inc, India

Aug 2019 - Apr 2021

- * Managed Yardi's real estate management database comprising almost 20,000 customers, utilizing advanced SQL scripting to rectify anomalies and ensure a consistently high-quality database.
- * Developed SQL scripts to generate conversion rate insights reports in collaboration with approximately 25 clients' account managers.
- * Conducted beta-testing of client website user interface, analyzed user feedback, reported bugs, and optimized website's functionality

SKILLS

Programming Languages	C++, C#, Python, Java, SQL, Shell Script
Operating Systems	Mac OS, Windows, Linux (Ubuntu)
Libraries and Tools	Git, Github SDK, UiPath, Azure DevOps, Azure SDK, Azure Batch, Azure ServiceBus, Azure BlobStorage
Databases	Azure CosmosDB, BigQuery, MySQL
Frameworks	.NET, Django, Bootstrap

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.