

# VAIBHAV TYAGI

Location: Redmond, Washington

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## WORK EXPERIENCE

### Software Engineer | SeekOut, Bellevue

July 2023 – Present

- \* Architected a reusable driver application to decouple client operations, ensuring fault isolation and eliminating cross-client dependencies. Enhanced scalability, reduced onboarding time by 70%, and streamlined customer integration with infrastructure on Azure Cosmos DB, Batch, Blob Storage, and Service Bus Topics.
- \* Built a deduplication service for attachment extractors, resulting in a significant reduction of 80% in download API calls and blob read/write operations, leading to cost savings and improved code efficiency.
- \* Redesigned the strategy for building the Applicant Review feature, enabling seamless integration of candidate data from ATS platforms into our product. This enhancement allowed recruiters to manage workflows from a unified platform, simplifying and streamlining the hiring process.
- \* Optimized service bus operations by reducing redundant requests, resulting in a 90% reduction in throttling and ensuring uninterrupted service.
- \* Revamped telemetry logging by standardizing naming conventions, implementing telemetry initializers, and enhancing metrics, reducing debugging time by 50% and improving cost efficiency by eliminating redundant logs.
- \* Created CI/CD pipelines leveraging Python, DevOps, shell scripting, and GitHub SDK to streamline build and deployment workflows, uploading only modified modules and reducing deployment times by 80%.
- \* Collaborated with cross-functional teams to gather requirements and developed Azure Logic App alerts and dashboards to facilitate timely issue detection, simplify debugging, and track code performance, thereby enhancing overall system maintainability.

### 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, Datadog, Data bricks, 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.