

# Vaibhav Tyagi

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[Portfolio Website](#) | [LinkedIn](#)

## EDUCATION

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### Master of Science in Computer Science

August 2021-May 2023

University of Texas at Dallas

Coursework: Analysis of algorithms, Machine learning, Web programming languages

### Bachelor of Engineering in Computer Science

May 2015-May 2019

University of Pune, India

GPA: 3.9

## SKILLS

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**Programming Languages:** C++, Python, Java, SQL, HTML, CSS, PHP, Bootstrap

**Operating System:** Mac OS, Windows, Linux (Ubuntu)

**Libraries and Tools:** Visual Studio Code, Git, Pandas, NumPy, Matplotlib, Scikit-Learn, OpenCV

## WORK EXPERIENCE

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### Software Engineer, Yardi Systems Inc, Pune

August 2019 – April 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
- Coordinated with 2 Team Leaders and 3 Software Engineers to conduct beta-testing of client's website user interface; analyzed user's feedback and reported bugs, optimizing functioning by 80%

## PROJECTS

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### Live Stock Price & Analysis Bot:

[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
- **Technologies used:** Python 3, NSEpy, Numpy and Matplotlib

### ATM (Automated Teller Machine) Surveillance:

[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
- **Technologies used:** Java, OpenCV, and SQL

### Crime Reporting System:

[Github](#)

- Led a team of 3 to design an application to keep crime reports safe, secure and yield significant insights from data
- Coded an entry page to Login/SignUp, thereby preventing unauthorized access
- **Technologies used:** Python 3, MySQL, Pandas, and Matplotlib

### Examination Result Website:

[Github](#)

- Implemented a web-based application to streamline the process of sharing examination results with students by allowing faculties to upload the results after signing in with valid credentials
- **Technologies used:** HTML5, CSS3, PHP, and MySQL

## ACHIEVEMENTS

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- Three times winner ZP district level Badminton tournament
- Winner of inter-corporate football tournament with Yardi Software
- **Certificates:** 'Python Course' from Udemy, 'Programming with C++' from IIT Kharagpur NPTEL

## EXTRA-CURRICULAR ACTIVITIES

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- Managed a team of 5 to organize a coding competition in an event called "Techlligent" during undergrad
- Volunteered in community service food drives and stationary giveaway to underprivileged kids as a member of Rotaract Club of Aundh