**YASH BHATIA**

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# EDUCATION

**Northeastern University,** Boston, MA  **May 2024**

Master of Science, Information Systems **GPA 3.52/4**

Relevant Coursework: Web Design/User Experience Engineering, Data Management and Database Design, Network Structures & Cloud Computing, Data Structures and Algorithms

**University of Mumbai,** Mumbai, MH, India **June 2020**

Bachelor of Engineering, Electronics and Telecommunications **GPA 8.06/10** Relevant Coursework: Applied Mathematics, Database Management System, Big Data Analytics

# TECHNICAL SKILLS

**Programming languages**: Python, Java, SQL, HTML, CSS, SASS, JavaScript, Node JS, Express JS, React JS, RESTful APIs

**Database**: Oracle, PL/SQL, MySQL, MongoDB, Hadoop

**Tools and Technologies**: AWS, Jenkins, Docker, MS Excel, Tableau, Power BI, GitHub, JIRA, Informatica, MS Office

**Libraries:** NumPy, Pandas, OpenCV, Keras, SciPy, Matplotlib.

# WORK EXPERIENCE

**Accenture Solutions Pvt Ltd** *Application Development Associate* **Feb 2021 - Jul 2022**

* Developed several REST web services supporting both **XML** and **JSON** in NodeJS web application.
* Successfully created and maintained automated **CI/CD** pipelines for code deployment using **Jenkins** while automating the deployment process, resulting in elimination of **70%** of manual work.
* Utilized **Docker** container to create Docker images for different environments.
* Deployed a web application on **AWS** EC2 instance and worked in **GIT** to manage source code.
* Worked with unit testing of JavaScript applications using Karma, Jasmine, and Jest.
* Designed **UNIX** shell scripts for automation processes, increasing efficiency by **44%**.
* Interacted with cross-functional team members by drafting client requirements specifications.
* Recorded all technical, implementations, and status updates within **JIRA** while working on **Agile** methodology.

**Trivia Softwares** *Python Developer Intern* **Jun 2018 - Jul 2018**

* Programmed **OpenCV**, **NumPy**, **Pandas** and **Matplotlib** data science libraries to devise data retrieval system.
* Utilized **Beautiful Soup** for web scrapping to extract data for building graphs, gaining **90%** accuracy for analysis.

# PROJECTS

**Bookstore Management System | Oracle, PL/SQL, Tableau Apr 2023**

* Developed a comprehensive system, handling customer, bookstore, and inventory details, and implemented 20+ **procedures**, **functions**, and **packages**, boosting functionality and performance of the database.
* Optimized **SQL** queries and indexing strategies, resulting in a **45%** reduction in query response time and improved overall system performance while implementing robust validation rules, ensuring data integrity.
* Created charts and graphs leveraging data visualization tool **Tableau** to present data patterns.

**Brainterest – Blog App | HTML, CSS, MERN Stack, RESTful API, Postman Dec 2022**

* Designed a community driven blogging website, allowing users to sign up and publish blogs.
* Built front-end of website with **React JS** resources, optimizing performance and achieving a 25% increase in page load speed. Integrated back-end use of **Node JS**, **Express JS,** and **MongoDB** to provide the **RESTful API**.
* Prioritized security by incorporating password **hashing** at the login page, safeguarding user credentials, and ensuring data integrity resulting in a 95% reduction in the risk of unauthorized access.

**Image Caption Generator | Python, Machine Learning Dec 2022**

* Designed an application to analyze images and convert to natural language (English) descriptions.
* Utilized deep learning techniques to implement a **convolutional neural network** (**CNN**) with recurrent neural network (**LSTM**) to build the image caption generator.
* Created an application in Python using a **Keras** framework against a **Flickr** **8K** dataset.

**Gym Ecosystem | Java, MySQL, NetBeans Dec 2022**

* Developed a Java application to create a network connecting city to a gym and its related entities in a managed ecosystem, enabling gym members to enroll in diverse programs, resulting in an enhanced member experience.
* Supplemented a robust authentication module for different login access as per roles in ecosystem.
* Configured application with **MySQL** database and added **Google SMTP** for email verification of user credentials.