

# YASH BHATIA

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## EDUCATION

**Northeastern University**, Boston, MA **May 2024**  
Master of Science, Information Systems **GPA 3.52/4**  
Relevant Coursework: Network Structures and Cloud Computing, Web Design/User Experience Engineering, Data Management and Database Design, Program 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:** Java, Python, JavaScript, SQL, HTML, CSS, Node JS, Express JS, React JS, RESTful APIs

**Database:** Oracle, PL/SQL, MySql, MongoDB, PostgreSQL

**Tools and Technologies:** Amazon Web Services (AWS), Docker, VS Code, Postman, GitHub, JIRA, MS Office

**Operating Systems:** Windows, Linux, MacOS

## WORK EXPERIENCE

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

- Developed several **REST** web services supporting **JSON** and maintained scalable backend systems with **JavaScript** using the **Express** framework, resulting in a 32% improvement in application performance.
- Worked with unit testing using **Karma**, **Jasmine** and **Jest** and extensive use of **GIT** to manage source code.
- Successfully created and maintained automated **CI/CD** pipelines for code deployment using Jenkins while automating the deployment process, resulting in elimination of **54%** of manual work.
- Deployed an application on **AWS EC2** instance and utilized **Docker** container to create Docker images.
- Designed **UNIX** shell scripts for automation processes, increasing efficiency by **44%**.
- Recorded all technical, implementations, and status updates within **JIRA** while working on **Agile** methodology.

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

- Used Python and **Django** for the backend development, **Bootstrap** and **Angular** for frontend Connectivity and MongoDB for the database.
- Written functional API test cases for testing **REST APIs** with Postman and Integrated with Jenkins to build scripts.

## PROJECTS

**Learning Management System | AWS, JavaScript, MySql, RESTful API** **Oct 2023**

- Developed a **cloud** native web application and implemented authenticated **RESTful** services utilizing **Bcrypt** hashing.
- Successfully established Continuous Integration (**CI**) using **GitHub** Actions for automated integration tests and code quality checks to ensure application reliability.
- Deployed the application on **AWS**, ensuring high availability and fault tolerance by implementing **AWS Auto Scaling** and **Load Balancing**, while integrating it with **Amazon RDS** for the database.
- Leveraged **Pulumi** for Infrastructure as Code (**IaC**) and managed **DNS**, **CloudWatch**, **VPCs**, **Route53** hosted zones and health Checks.

**Brainterest – Blog App | HTML, CSS, JavaScript, MERN Stack, RESTful API** **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.

**Airline E-commerce | Java Spring Boot, MySQL, AngularJS, Thymeleaf, Bootstrap** **Dec 2022**

- Developed a web application using **Spring Boot**, **Spring data JPA** and **MySQL** where users can login and book a flight.
- Created an Integration layer **RESTful API** for flight check-in microservice to check in passengers with reservations.
- Designed front end templates using **Thymeleaf** and styled them using **Bootstrap** and **CSS**.

**Image Caption Generator | Python** **Sep 2022**

- Designed and created 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.