**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

**AWS Services:** EC2, RDS, VPC, Lambda, Security Groups, Load Balancer, CloudWatch, DNS, Route53, IAM, SES, SNS

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

# 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 **Java** using the **Spring Boot** framework, resulting in a 32% improvement in application performance.
* Worked with unit testing using **JUnit** and Spring Test 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, RDS, 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.

**Airline E-commerce | Java Spring Boot, MySql, AngularJS, Thymeleaf 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**.

**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.

**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.