**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, Application Engineering & Development, 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**: Python, JavaScript, Java, SQL, HTML, CSS, Node JS, Express JS, React JS, RESTful APIs

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

**Tools and Technologies**: Amazon Web Services (AWS), 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 both **XML and JSON in Java** application.
* Developed and maintained scalable backend systems with Java using the **Spring Boot** framework, resulting in a 32% improvement in application performance.
* Worked with unit testing of Java applications using **JUnit** and Spring Test and extensive use of **GIT** to manage source code.
* 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

**University Management System | JavaScript, MySql, AWS, 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 EC2** instance and utilized **Amazon RDS** for the database.
* Leveraged **Pulumi** for Infrastructure as Code (**IaC**) and managed **DNS**, **Cloud watch**, **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.

**Image Caption Generator | Python Dec 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.

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