Pranav Khismatrao

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# EDUCATION

## Master of Science Sept 2022 – Apr 2024 | Boston, USA

*Northeastern University*

Relevant Courses: Object Oriented Design, Web Design, Enterprise Software Design

## Bachelor of Engineering Aug 2016 – Oct 2020 | Mumbai, India *University of Mumbai*

Relevant Courses: Data Structures Algorithms, Database Management,

# SKILLS

**Programming**: *Java, Python, JavaScript, HTMLS, CSS, NodeJS, JSP, Bootstrap*

**Frameworks, Libraries, and tools:** *GitHub, Spring boot, Servlet Programming, Spring MVC, Hibernate, ReactJS, REST API, Microservices, Jira*

**Cloud Technologies:** *Kubernetes, Docker, AWS (EC2, RDS, S3), CI/CD, Jenkins*

**Databases:** *SQL, MongoDB, PostgreSQL, Aerospike, Firestore*

# PROFESSIONAL EXPERIENCE

## Software Developer Jan 2021 – Jul 2022 | Mumbai, India

*Tata Consultancy Services*

* Programmed 3 comprehensive solutions with a team of 3 leveraging RPA Technology along with 20 deploy cases utilizing Agile Methodology
* Designed a responsive website using the **Spring MVC Framework** with a multipurpose goal for the client-side team to view and search recorded team meetings increasing **employee efficiency by 50% and reducing delay by 90%**
* Developed and upgraded internal company applications utilizing Spring boot as the backend and **Thymeleaf** as the dynamic frontend.
* Developed Kafka clients in Java to handle over 100,000 messages per day using Kafka APIs, and frameworks such as Kafka Streams.

# PROJECTS

## AWS – Backend Infrastructure Project Mar 2023- Apr 2023

*Northeastern University*

* Designed and developed enterprise infrastructure on AWS using Cloud Formation, Github actions and AWS AMIs
* Employed a secure and scalable online product system using AWS services such as VPC, EC2, RDS, S3, Route 53, IAM, Security Groups, Internet Gateway, and Route Tables, resulting in a **40% increase in system uptime** and a **30% reduction** in server maintenance time
* Provisioned CI/CD to host a backend web application as a SystemD service upon start of a EC2 instance

## CRM for Bank (Object Oriented Design Project) Oct 2022 – Dec 2022 *Developed at Northeastern University*

* Created a centralized system that allows customers to register and open accounts in a bank branch as well as credit and debit certain amounts according to business rules.
* Improved system performance by 30% and accelerated transaction processing, by using Java, Micronaut, and Aerospike NoSQL database.
* Leveraged JavaScript AJAX calls to make API Requests on the backend while HTML, CSS, and Bootstrap were used to build the frontend

## Online Movie Booking System Mar 2023-Apr 2023

*Northeastern University*

* Built robust system using Spring boot, Hibernate, reducing its response time by 50% through code optimization and database indexing, resulting in enhanced user experience and customer satisfaction.
* Implemented RESTful APIs for seamless communication between the front-end and back-end systems, resulting in a 40% improvement in API response time and data transfer efficiency.
* Utilized Spring Security for authentication and authorization of users, ensuring a secure and reliable user experience with a 95% reduction in unauthorized access attempts.