**Pranav Khismatrao**

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**Education**

**Master of Science, Software Engineering Systems** **Expected May 2024**

Northeastern University, Boston, MA **GPA: 4.0**

Relevant Courses: Object Oriented Design (Java), Web-Design

**Bachelor of Engineering, Information Technology** **Oct 2020**

Mumbai University, India

Relevant Courses: Data Structures Algorithms, Database Management, Cloud Computing

**Technical Skills**

**Programming languages:**  Java (Object oriented Programming), Python

**Web Technologies:** HTML5, CSS, JavaScript, jQuery, Bootstrap

**Frameworks:** NodeJS, .Net MVC, Angular, React

**Software:** Microsoft Visual Studio, MS Office, IntelliJ IDEA

**Soft Skills:** Time Management, Organizational skills, Communication, Teamwork, Decision Making skills, Problem-solving skills  
**Databases:** MySQL, Mongo DB, Firebase

**Certifications:** Oracle Java Associate

**Professional Experience**

**Tata Consultancy Services**, Mumbai, India **Jan 2021 - Jul 2022**

Assistant System Engineer

* Accomplished 6 months of training held by TCS with course content including C# language, and MVC framework
* Built complex architecture for required problem statements with RPA techniques according to the Client's requirements and complications with optimal solution that increased efficiency by 20%
* Programmed 3 comprehensive solutions with a competent team of 3 leveraging RPA technology along with testing 20 deploy Cases utilizing agile methodology
* Designed a responsive website using the NodeJS Framework with a multipurpose goal for the client-side team to view and search recorded team meetings increasing employee efficiency by 50% and reducing unwanted delay by 90%.
* Delivered 2 end-to-end projects utilizing JavaScript, JSP and NodeJS with mongo DB as backend database for internal project team usage, displaying data from APIs with rich User experience and functionalities using visual Studio
* Design, develop, and code web applications for customer accounts, which includes debugging issues, diagnosing root causes, and identifying solutions
* Created a web portal with a team of three to create, edit, read, and track FAQ tickets to cut down on lag time and double efficiency
* Led the creation of a website that allows users to access and watch Stored team meeting with a team of five
* Utilizing critical thinking abilities to identify the source of problems encountered both during the development phase and during UAT

**Academic Projects**

**CRM for Bank (Object Oriented Design Project) Nov 2022-Dec 2022**

* 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
* Utilized **Java** as the backend technology, **Micronaut** as the **API creation** framework following **Factory design pattern** for better performance and code efficiency and **Aerospike** as NoSQL real-time database
* JavaScript was utilized to call APIs on the backend while HTML, CSS, and Bootstrap were used to build the frontend
* Employing the same backend but a **JavaFX** user interface, a Relationship Manager-facing application that would serve as software in a bank branch was built

**Phishing-Inspector Jan 2020**

* Extracted features from the website's HTML and URL, such as the presence of certain keywords and the length of the URL, and uses them to train a model utilizing python programming language
* Evaluated the performance of Phishing-Inspector using a dataset of 9,318 websites, of which 4,641 were legitimate and 4,677 were phishing.
* Achieved an accuracy of 97.85%, a precision of 97.91%, a recall of 97.78%, and an F1 score of 97.84%
* Conducted a feature analysis to identify the most important features for phishing detection. The length of the URL and the presence of certain keywords, such as "login" and "password," were the most important features

**DotNet MVC Movie Management**

Engineered Movie management System leveraging MVC framework of DotNet where user can add, update, read and delete movies from SQL Database

* Designed security measures involving login and logout mechanism to maintain integrity and confidentiality between users
* Efficiently deployed onto the server and integrated with back-end database utilizing best practices

**Weather Web Application, Northeastern University Nov 2022**

* Developed a feature-rich weather app that leverages the power of openweather.com to provide users with accurate and up-to-date weather data
* Built using **Node.js** on the backend and **React** on the frontend, with integration with **Bootstrap** for a clean, modern UI design
* App provides users with real-time updates on temperature, humidity, wind speed, precipitation, and other important weather-related information of 5 days since present day.

**Smart Services Android Application**

* Developed android application for hackathon in college by applying Java Frameworks and MVC framework along with noSQL database such as Firebase.
* Application was built for students to order food, buy sell used books and a lost and found section to help students get their belongings back to them.
* Won runner up prize among the whole department.

## 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.
* Leveraged Hibernate ORM for object-relational mapping and efficient database operations, resulting in a 15% reduction in database management overhead and improved data integrity.

## NU Chronicles Mar 2023-Apr 2023

*Northeastern University*

* Designed and implemented the interactive front-end using React and developed the backend using Node.js and MongoDB
* Designed and implemented the front-end using React, resulting in a 40% increase in user engagement and a 20% decrease in bounce rate
* Developed the back-end using Node.js and MongoDB, resulting in a 30% increase in application performance and a 50% decrease in loading times
* Utilized RESTful APIs, resulting in a 15% decrease in data transfer time and a 10% increase in user satisfaction

**Publications**

**Phishing-Inspector (ICACC-2020):** Detection & Prevention of Phishing Websites, International Conference on Automation, Computing and Communication 2020