Karn Vadaliya

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TECHNICAL SKILLS

Programming Languages: Java, C#, C++, JavaScript, HTML, CSS, SQL

Web Technologies: React JS, Redux, Node JS, jQuery, JSON, AJAX, XML, Express JS, RESTful API,

JavaEE, Spring MVC, Spring Boot, Hibernate, Elasticsearch

Databases: MySQL, PostgreSQL, MongoDB, Redis, SQL Server, JDBC

Tools: NetBeans, Eclipse IDE, Visual Studio, RabbitMQ, Kibana, CMake, Bash, MS office,

Jira, Bitbucket, Git, Terraform

Operating Systems: Windows, Linux, MacOS

AWS Technologies: EC2, S3, Lambda, RDS, Route53, API Gateway, SNS, SES, EBS, IAM, CloudWatch

Certifications: AWS Certified Cloud Practitioner, AWS Certified Developer - Associate

EDUCATION

Northeastern University | Boston, MA

Expected December 2021

Master of Science in Information Systems

Relevant Courses: Application Engineering Development, Data Structures and Algorithms, Web Design and User Experience, Web Development, Network Structures and Cloud Computing, Big Data Applications and Indexing

Dhirubhai Ambani Institute of Information and Communication Technology | Gandhinagar, India

May 2019

Bachelor of Technology in Information and Communication Technology

Relevant Courses: Software Engineering, Algorithms, Object-Oriented Programming, Database Design & Management Systems

EXPERIENCE

Doble Engineering Company | Marlborough, Massachusetts

Software Engineer Co-op

January 2021 - August 2021

- Worked on resolving multithreading design issues in a C++ driver and developed a diagnostic tool in C# using .Net
 Framework for testing various diagnostics scripts across different system simulators
- Reduced cost by 90% by implementing an alternative to an external licensed library used in the software
- Contributed to fixing issues in a project release management tool developed in C# using .Net Framework for managing new software releases within the company
- Implemented techniques for a project to export managed code in **C#** to be used as a standard native .dll file which can be accessed by unmanaged code in **C++** that helped in reducing the problem of cross-team collaboration
- Designed and deployed in production a licensing application using React JS that is used by all clients

$\textbf{Dhirubhai Ambani Institute of Information and Communication Technology} \mid \mathsf{Gandhinagar}, \mathsf{India}$

Web Developer Intern

May 2018 - July 2018

Developed a full-stack web application using HTML, CSS, Bootstrap, JavaScript, jQuery, and Firebase, which helps
the customer to visualize different combinations of tiles and followed an agile development practice such as Scrum

ACADEMIC PROJECTS

Big Data Indexing Web Application (Spring Boot, JSON, Redis, Elastic Search, Rabbit MQ, Kibana)

Jan 2021 - Apr 2021

- Developed a Spring Boot RESTful web application to store schema less structured JSON objects to Redis key-value store
- Implemented caching mechanism for the JSON objects and validating the cache using ETag
- Designed indexing of the JSON object to Elastic Search via RabbitMQ queue to run search queries on the indexed data

Restaurant Reservation System (Java, Spring)

Nov 2020 - Dec 2020

- Designed and developed a reservation system using technologies Java, Spring MVC and Hibernate in NetBeans
- Added functionalities such as search, manage, reserve and cancel a booking with right email notification

Cloud Web Application (NodeJS, CI/CD, AWS)

Sep 2020 - Dec 2020

- Built a resilient cloud-based web application with backend in NodeJS by leveraging the use of AWS cloud services
 created using Terraform such as EC2, EBS, CloudWatch, S3, IAM, Route53 and RDS with MySQL for database
- Added Continuous Integration and Deployment using GitHub Actions and Shell Scripting in AWS Code Deploy
- Implemented load testing through **Apache JMeter** that triggers autoscaling, decoupling of **microservices** through **SNS**, notification to users on certain events through **Lambda** and **SES** and added **SSL certificate** for security

Expert Hiring Application (ReactJS, Redux, NodeJS, MongoDB, Rest API)

Mar 2020 - Apr 2020

- Developed a **MERN-stack** single page web application that allows user to hire professionals for various services like electricians, plumbers etc. and with add-on functionalities like google login and payment integration through PayPal
- Worked on a single page application using React JS along with Redux, with Node JS in the middle tier and MongoDB for database management that communicate with backend via RESTful API