Sreeja Vangoori

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Education

Master of Science, Computer Software Engineering

Northeastern University, Boston, MA — Expected May 2024

Courses: Data science engineering tools and methods, Application Engineering development, Database Management and Database Design, Network Structures and Cloud Computing, Agile Methodologies

Teaching Assistantship: Marketing Analytics for Spring'23 and Summer'23, Discrete Structures for Fall'23

Bachelor of Technology, Information Technology

CVR College of Engineering, India — July 2022

Courses: Java, C Language, Data structures, Python, Applied machine learning, data mining, Big Data Analytics, Data base management systems, Operating systems

Skills

Programming Languages: Java, C, Python, JavaScript
Operating Systems: Windows, Linux, Mac
Web Technologies: HTML, CSS, Angular, NodeJS, JWT Auth, RESTAPI, React, JSON
Database: MongoDB, MySQL, Oracle SQL, PostgreSQL
Technical: Machine Learning, Android Studio, Data Analytics
Libraries & Frameworks: NumPy, Pandas, Swing, sklearn, TensorFlow, Flask
Amazon Web Services: AWS S3, AWS EC2, AWS RDS, Cloud formation, Load balancer, Cloud watch
Others: Java Spring, Data Structures, Algorithms, Terraform, Packer, Postman, XML, DNS, HTTP, Git Continuous integration, Bash, MS Excel

Projects

Scalable Web Application with Node.js on AWS, Northeastern University. January 2023 – May 2023

- Developed a scalable web application using Node.js, Express, and Sequelize ORM for managing users, images, and products through RESTful API
- Enabled CRUD functionality, basic authentication, and error handling to ensure a seamless user experience
- Configured the backend on an EC2 instance in a public subnet and RDS instance in a private subnet of a VPC on AWS
- Managed infrastructure with Terraform for efficient and scalable infrastructure management
- Configured domain with Route 53 for easy access to the application
- Implemented logging and metrics using CloudWatch for enhanced visibility into the application's performance
- Configured AWS Load Balancer and Autoscaling to enhance application availability, scalability and fault-tolerance
- Deployed the application with an AMI created using Packer and automated startup on the EC2 instance using systemd
- Conducted thorough testing of the application with unit tests, integration tests, and end-to-end tests to ensure its functionality and performance

Credit Analysis, Northeastern University November 2022 - December 2022

- Created a machine learning model capable of forecasting the approval rate of loan applications through credit data analysis
- The team conducted detailed visualizations and exploratory data analysis to better understand the patterns and trends in the loan application data
- Build a machine learning model with 90% accuracy by conducting a detailed analysis and visualizations of loan application datasets gathered from reputable banks

End-to-End Vaccine Management and Distribution Application November 2022 - December 2022

- Collaborated on designing and developing an end-to-end vaccine management and distribution system using Java, Swing GUI, and Db4o database with validation and exception handling thorough testing for each CRUD operation
- Designed 16 distinct user roles with unique user interfaces, allowing for specific functionalities and data access
- Implemented key features such as password encryption using SHA-256, Google Maps API for location, email notifications for users on updates, announcements board, and charts for sales and finance dashboards