Deepak Nangamangalam

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EDUCATION

The University of Texas at Dallas | CGPA: 3.7 | Graduation Year: May 2024
Master of Science, Computer and Information Science
Relevant Courses: Statistical methods in Data science, Data structures, Database design, Natural Language Processing, Design and Analysis of Algorithm, Artificial Intelligence, Applied Machine learning, Web programming languages, Operating Systems
GITAM University | CGPA: 3.8 | Graduation Year: May 2019
Bachelor of Technology, Electronics and Communication

SKILLS

Languages: Java, SQL, Python, C, C++, C#, JavaScript, HTML, HTML5, CSS3, Bootstrap, Node.js, PHP
Frameworks & Libraries: Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, Angular
Tools: Eclipse, IntelliJ IDEA, Maven, Gradle, JUnit, Git, Jenkins, Docker, Kubernetes
Databases: Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, NoSQL
Data Management & Analytics: Tableau, Power BI, Jupyter Notebook, R Studios
Core: Object-Oriented Programming (OOP), Design Patterns, Microservices Architecture, RESTful API Development, CI/CD Practices

PERSONAL ACHIEVEMENTS

Certifications: DatabricksDataEngineerAssociate, Gold Badge (Hacker Rank), Python (Hacker Rank), Cricket Analytics with Python, Cloudy ML SQL, and Python Certification, IBM Professional DataEngineer Certification,
Honours : Appreciation Award, Secured second prize in IETE project display event

WORK EXPERIENCE

ACCENTURE

Software Engineer   **June 2019 - June 2022**

- Designed and implemented microservices-based architectures using Spring Boot, ensuring scalable and resilient applications for complex systems.
- Developed RESTful APIs with Spring Boot, facilitating efficient communication between internal services and external systems, and enhancing system modularity.
- Implemented robust data access layers using Spring Data JPA and Hibernate, enabling seamless object-relational mapping (ORM) and database interaction.
- Integrated Spring Security to establish comprehensive authentication and authorization mechanisms, ensuring secure access across applications.
- Utilized Spring Boot's configuration management capabilities to externalize and manage application settings, promoting flexibility across different environments.
- Applied unit and integration testing using JUnit and Spring Boot's testing framework, ensuring high code quality. Integrated CI/CD pipelines for automated builds, testing, and deployments, streamlining the development lifecycle.
- Configured and managed Spring Boot applications in cloud environments such as AWS and Azure, employing Docker for containerization to guarantee consistent, scalable, and efficient deployments.
- Proficient in C++, Python, SQL, JavaScript, and React, allowing for effective full-stack development and problem-solving across various technologies.
- Strong understanding of systems programming, data structures, and algorithms, ensuring optimized and efficient software solutions.
- Experienced working in Linux environments, utilizing command-line tools and scripting for system management and development tasks.
- Equipped with strong analytical and problem-solving skills, consistently delivering effective and scalable solutions for complex challenges.
- Demonstrated excellent communication skills, both written and verbal, with a strong work ethic and the ability to adapt quickly to fast-paced, dynamic environments.

PROJECTS

Admission chance Prediction |Machine learning (code)   **January 2019 - April 2019**

- Developed an ML model using Python libraries (Keras and Scikit-learn) to predict admission chances for graduate schools based on academic, personal, and test score data
- Evaluated model performance using key metrics (accuracy, precision, recall, and F1 score), achieving over 90% accuracy
- Created informative and insightful plots using Matplotlib and Seaborn libraries to visualize the data model performance

E-Commerce Platform Development with Spring Boot   **May 2023 – August 2023**

- Developed an E-Commerce Platform using Spring Boot, featuring payment processing, order management, and a comprehensive product catalog
- Implemented user authentication and authorization with Spring Security and optimized data management with Spring Data JPA for efficient handling and retrieval