Dheepak Karan ES

Aspiring Machine Learning Engineer
Ex-Graduate Engineer @GuardianLife
Hackerrank | Leetcode| Github | Portfolio

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SUMMARY:

Proactive professional with a solid understanding of OS concepts, Linux, and networking. Experienced in Java and Python, creating scalable AWS cloud solutions. Eager to expand my expertise in automotive intelligence, machine learning, and image processing through a master's program focused on AI technologies and real-world applications.

EDUCATION:

Degree	Board	CGPA/Percentage	Year
Bachelor of Engineering	Anna University of Tamil Nadu	8.02	2022
Senior Secondary	State Board of Tamil Nadu	71%	2018
Secondary	State Board of Tamil Nadu	91%	2016

WORK EXPERIENCE:

Guardian Life | Web Services Developer (GET)

April 2022 – July 2023 | Chennai, IN

- **Microservices and API Development**: Involved in the development of a subscription management microservice using Spring Boot, enhancing functionality and optimizing API performance.
- **Cloud Integration and Event-Driven Architecture:** Participated in the integration of AWS services like S3 and SQS, improving data retrieval speed by 30%. Assisted in creating an event-driven notification system with AWS SQS and Kafka, boosting delivery times by 40%.
- **Database Optimization and Performance Tuning**: Contributed to optimizing SQL queries and indexing in MySQL, reducing query response times by 25%. Aided in implementing caching strategies and improving schema design for better data retrieval efficiency.
- **DevOps and Automation:** Helped with Docker for application containerization and supported Jenkins for continuous integration and deployment, streamlining development processes.
- **Linux System Management**: Supported deploying and managing microservices in a Linux environment, optimizing performance and reducing server response times by 20%. Automated maintenance tasks with Bash scripting and configured network settings for efficient application deployment.
- **Production Support and Troubleshooting:** Engaged in on-call support, monitoring system logs, and troubleshooting issues to minimize downtime. Used log analysis tools to identify performance bottlenecks.
- **Version Control and Agile Practices:** Collaborated in managing code repositories using Git, Bitbucket, and GitHub while utilizing Jira for project management. Participated in applying Agile methodologies, including Scrum and Kanban, for effective project execution.

PROJECT:

Event-Driven Notification System

- Collaborated on an event-driven notification service using AWS SQS for asynchronous messaging and Kafka for real-time communication.
- Utilized AWS S3 to manage scalable storage for notification content and templates.
- Developed RESTful APIs for immediate notifications and set up monitoring with AWS CloudWatch and Kafka for real-time performance tracking.

SKILLS:

- **Programming Languages:** Python ★★★★★, Java ★★★★, SQL ★★★, C ★★
- **DevOps & Tools:** Docker, Jenkins, Git, Postman, Linux [Ubuntu], Matlab - (★★)
- **ML Technologies:** scikit-learn, TensorFlow, Matplotlib, Seaborn - **(★★)**
- **Web Technologies:** Spring Boot, Pandas, NumPy- **(★★)**
- **Databases:** MySQL, PostgreSQL, MongoDB - (★★)

COURSES:

- Building Scalable Java Microservices with Spring Boot and Spring Cloud | Coursera
- IBM Machine Learning Professional Certificate | Coursera

INVOLVEMENTTS:

1. **Achievements**
Participated in GUVI's Guinness World Records AI-for-India event, organized by GUVI, AICTE, N.E.A.T, and Buddi.ai, where the greatest number of learners successfully completed a lesson and hands-on project to build a face recognition app using Python. I am honoured to have contributed to this milestone, gaining valuable knowledge and practical experience in artificial intelligence. I also earned recognition for my performance in inter-college coding events, showcasing my problem-solving abilities and technical expertise. Additionally, I achieved distinction in Typewriting (Junior Grade) and passed the Senior Grade exam, demonstrating proficiency and dedication to skill development.

2. **Volunteering Experience**
Initiated and led scrum meetings in the absence of the Scrum Master, ensuring smooth project continuity and team alignment. Actively participated in CSR activities, contributing to company-driven social initiatives and community support. Organized outdoor team meetings and coordinated team outings, fostering a positive and collaborative work environment. Volunteered as a blood donor, supporting health initiatives and emergency needs within the community.

3. **Industrial Projects**
Completed an industrial project at NLC, applying technical skills to real-world scenarios by implementing a Stator Water Cooling System Control using PLCs. Collaborated with industry professionals, gaining hands-on experience in system control and real-time monitoring. Additionally, participated in a college project to retrofit a conventional Ambassador car into an electric vehicle (EV), replacing the combustion engine with an electric motor. In the office, worked on internal projects to improve operational efficiency and assisted in cross-departmental collaborations.

4. **Extracurricular Activities**
Actively participated in stage dance performances during college competitions, showcasing enthusiasm and creativity. Additionally, I was awarded 1st prize in photography at a college-level competition, highlighting my creativity and eye for detail. In the workplace, I participated in a T-shirt painting event with the theme of Pride Week, promoting inclusion and self-expression. I also delivered an emotional and supportive speech on stage, leaving a positive impression on peers and senior colleagues, and was recognized by esteemed individuals for my thoughtful communication and confidence.

5. **Sports Involvement**
Actively participated in inter-college football tournaments, demonstrating teamwork and leadership. Consistently recognized for strong sportsmanship and dedication on the field. In the office, joined corporate sports events, promoting team spirit and networking across departments.

LANGUAGES:

- ENGLISH | PROFESSIONAL
- TAMIL | NATIVE
- SPANISH | LEARNING

FIELD OF INTEREST:

- Problem Solving
- UI/UX Design
- Machine Learning (Image Processing)
- Embedded Electronics
- Car Mechanics

HOBBIES:

- Pianophile
- Footballer
- Bibliophilia
- Hodophilia