CHANDRADAS.PV

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SUMMARY

Highly motivated B.Tech graduate specializing in Artificial Intelligence and Data Science (AI & DS). Possessing a strong foundation in designing, developing, and deploying scalable software solutions. Eager to leverage deep expertise in the Java ecosystem, including Spring Boot and Hibernate, combined with data analysis and machine learning principles, to develop scalable and intelligent software applications. Proven ability to apply advanced Data Structures and Algorithms to solve complex problems and deliver high-performance, maintainable code. Seeking a challenging role as a Full Stack Developer where deep CS fundamentals and system design skills can contribute to building large-scale, low-latency applications .

INTERNSHIPS

Tap Academy Bengaluru Karnataka | Full stack Development Trainee | June – Present
   Undergoing intensive training in java Full Stack Development covering Java, JDBC, HTML, CSS and SQL

Keltron Advanced Studies, Palakkad, Kerala | Python | Jun 2022 - Jun 2022
   Developed Python scripts to automate repetitive tasks and improve efficiency.
   Worked with libraries such as NumPy, Pandas, and Matplotlib for data handling and visualization.
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ZanX Technologies, Palakkad, Kerala | Machine Learning | Aug 2023 - Aug 2023
   Built ML models and contributed to data preprocessing and performance evaluation.

Torc InfoTech PVT LTD Kochi Kerala | AI | Jul 2024 - Aug 2024
   Gained hands-on experience with supervised and unsupervised learning algorithms.

PROJECTS

1. High-Throughput E-Commerce Microservices
(Java 17, Spring Boot, Spring Cloud, Hibernate, MySQL, React)
Designed and developed modular microservices for Inventory, Orders, and Authentication using Spring Boot. Optimized Hibernate queries and caching to reduce transaction latency by 40%, and implemented concurrency with Java's ExecutorService, improving user capacity by 25%. Built a reactive React UI integrated with REST APIs for seamless client-server interaction.

2. Distributed Caching and Rate Limiter Utility
(Core Java, Spring Boot, Custom Cache, JUnit)
Built a distributed caching utility with a custom LRU eviction policy for optimized memory use and a Token Bucket–based Rate Limiter integrated via Spring interceptors. Ensured O(1) cache operations with HashMap/LinkedHashMap and achieved 100% test coverage using JUnit and Mockito, validating concurrency and edge cases.

3. Data Visualization Dashboard
(JavaScript, React, PostgreSQL, REST APIs)
Developed a dynamic React dashboard with Spring Boot REST APIs for real-time analytics. Optimized frontend rendering using React hooks and improved PostgreSQL query performance, reducing data retrieval and page load time by ~2 seconds.

SKILLS

- Backend & Core CS : python, Java (Core, OOP, Concurrency), Spring Boot, Hibernate (ORM), spring,   microservices.
- Data Structures & Algorithm : Trees, Graphs, Hashing, Dynamic Programming, Time/Space Complexity Analysis.
- Frontend & UI : JavaScript (ES6+),React,HTML5, CSS3.
- Databases : MySQL, SQL , JDBC, Git.
- Soft Skills : Team Collaboration, Problem Solving, Communication, Debugging.

EDUCATION

B.Tech - Artificial Intelligence and Data Science
Dhanalakshmi Srinivasan College of Engineering, Coimbatore | 2021 - 2025