V.NANDHINI

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19BM060
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SUMMARY

Enthusiastic Engineer with a strong passion for programming, software development and AI. Self-motivated learner with hands-on experience in Spring Boot framework, basic proficiency in Python, and a keen interest in AI applications in healthcare. Continuously exploring new technologies to bridge the gap between biomedical engineering and software solutions.

EXPERIENCE

Junior Biomedical Engineer — January 2024 - Present
Panimalar Medical College Hospital and RI –Chennai.
Experienced in handling critical care equipments, Preventive Maintenance, Documentation related to NABH, NABL

SKILLS

- Languages – Java, Python
- Framework – SpringBoot, Maven, JPA
- Database – MySQL
- Developer Tools – IntelliJ Idea, VS Code
- Version Control – Git, GitHub
- Soft skills - Strong problem solving, open to learning

PROJECT

➢ CRUD Operations REST API using Spring Boot — 2025

Developed RESTful APIs for basic CRUD operations using Spring Boot.
Implemented MVC architecture with controllers, services, and repositories.
Used Spring Data JPA for database interactions.
Tested APIs using Postman

GitHub Repositories:

1. https://github.com/19BM060/JOBAPP.git
   Job Management : Developed a CRUD REST API using SpringBoot to manage job listings, including job title, description, salary range and location.

2. https://github.com/19BM060/Bankingapplication.git
   Account Management: Designed a data transfer Object for handling account related data, including ID, account holder name and balance to facilitate structured data exchange.
3. https://github.com/19BM060/Cloudvendor.git
   Cloud Vendor Management REST API: Developed a Spring Boot-based CRUD REST API for managing cloud vendors, enabling seamless vendor data operations.

4. https://github.com/19BM060/customerService.git
Customer Management REST API: Developed a Spring Boot-based REST API to manage customer data using a CustomerDTO for efficient data transfer.

- Early Detection of Melanoma Using Convolutional Neural Network 2023

The detection of melanoma, a dangerous type of skin cancer using a Deep Learning algorithm. Octal architecture is used to extract the features.

- Leukemia detection using microscopic images. 2022

The evaluation of leukemia using a grouping algorithm will be used to overcome the greatest challenges in the segmentation process.

ACADEMICS

B.E (Biomedical Engineering) DR.N.G.P Institute of Technology, Coimbatore	90%	2023
HSC RKR Grks Matriculation Higher Secondary School, Udumalpet	74%	2019
SSLC RKR Grks Matriculation Higher Secondary School, Udumalpet	98%	2017

CO-CURRICULAR ACTIVITIES

- Member of MATHCLUB
- Organized a session for school students to teach them the concepts of Vedic Mathematics
- Actively participated in a Poster Design Contest conducted by Jansons Institute of Technology

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