

DIWANSHI PANDEY

Software Development Engineer | Full-Stack Developer

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GitHub / LeetCode / Portfolio

EDUCATION

D Y Patil International University

Pune, India

Degree: B.Tech in Computer Science and Engineering CGPA: 7.01

June 2022 - Present

Dreams Valley Public School

Satna, India

12th - PCM; Percentage: 83.68

May2020 - May 2021

SKILLS SUMMARY

- Programming Languages:** Java, Python, C/C++, JavaScript
- Databases & Cloud:** MySQL, MongoDB, AWS(Beginner)
- Frameworks/ Tools:** React JS, Node.js, Spring Boot, Bootstrap, Postman, WebSockets, RESTful APIs
- Tools and Fundamental:** Object-Oriented Programming (OOP), Data Structures & Algorithms(DSA), Git, GitHub, Maven, Debugging, Problem-Solving

WORK EXPERIENCE

Software Developer Intern | Radhakrishna Web Solution | Link

June 2025 - Aug 2025

- Developed 10+ responsive web pages using HTML, CSS, and JavaScript for improved UI/UX.
- Built client projects including a Gym Website and HosLink property platform.
- Implemented PHP/MySQL backend modules for dynamic content and data handling.
- Tested, debugged, and deployed full-stack applications on XAMPP.

Tech Stack: HTML, CSS, JavaScript, MySQL, TypeScript, PHP, XAMPP

Research Intern | University of Kerala | Link

May 2025 - July2025

- Researched and compared Neuromorphic Chips vs GPUs for Large Language Model efficiency.
- Tested Spiking Neural Networks (SNNs) using Nengo, Brian2, and baseline models in PyTorch.
- Explored ANN-SNN hybrid architectures for efficient NLP processing and real-time performance.
- Contributed to a research paper, documenting energy efficiency, performance, and societal impact.

Tech Stack: Neuromorphic Computing, Spiking Neural Networks, Nengo, Brian2, PyTorch, GPUs

Front-End Developer Intern | Agarwal Creations Fashions Pvt. Ltd. | Link

Jun 2024 - Aug 2024

- Developed responsive desktop and mobile-friendly web projects with cross-browser support.
- Optimized PHP-MySQL back-end, reducing data processing time by 30%.
- Collaborated on 3+ live client projects, delivering customized, scalable solutions.
- Designed, tested, and deployed applications on XAMPP with smooth front-end and back-end integration.

Tech Stack: HTML, CSS, JavaScript, MySQL, PHP, XAMPP, Figma, Frontend development

PROJECTS

Real Time Chat Platform | Link

- Built a decoupled application using React.js for the UI and Spring Boot for the backend logic.
- Implemented persistent storage and CRUD operations using MongoDB and Spring Data.
- Integrated WebSockets to enable instant, live data updates between server and client.
- Developed and tested RESTful endpoints using Postman and managed dependencies with Maven.

Tech Stack: Java, Spring Boot, React.JS, MongoDB, WebSockets, Maven, REST API, Postman.

FarmSmart AI | Link

- Built a reinforcement learning-based smart irrigation system using Monte Carlo, TD Learning, Q-Learning, and DQN.
- Created a real-data-driven environment using crop, soil, weather, fertilizer, and moisture parameters.
- Trained RL agents to optimize irrigation decisions, achieving higher water efficiency than baseline policies.
- Developed a Crop Requirement Checker with visual dashboards for irrigation and fertilizer recommendations.

Tech Stack: Python, Monte Carlo, baseline policy, TD learning, Q-learning, DQN.

CERTIFICATES

- Smart India Hackathon (SIH)-2024 | Link
- JAVA(Core) | Link
- Amazon Web Service (Beginner) | Link

EXTRA CURRICULAR ACTIVITIES

- Solved 100+ problems on LeetCode, CodeChef together, demonstrating strong problem-solving and coding skills. | Link
- Completed a social work internship, contributing to community development and teamwork.
- Anchored and hosted events in school and college clubs, showcasing leadership and communication abilities
- Teaching Assistant: MAD