

DIWANSHI PANDEY

Software Development Engineer | Full-Stack Developer

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GitHub / LeetCode

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EDUCATION

D Y Patil International University

Degree: B.Tech in Computer Science and Engineering CGPA:7.10

Pune, India

June 2022 - Present

Dreams Valley Public School

12th - PCM; Percentage: 83.68

Satna, India

May 2020 - May 2021

SKILLS SUMMARY

- Programming Languages:** Java, Python, C/C++, JavaScript
- Database:** MySQL, MongoDB
- Frameworks/ Tools:** React JS, Node.js, Bootstrap, Git, GitHub, AWS (Beginner)
- Others:** Object-Oriented Programming (OOPs), Data Structures & Algorithms, RESTful APIs, Responsive Web Design, 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 - July 2025

- 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.

Skills: Neuromorphic Computing, Spiking Neural Networks, Nengo, Brian2, PyTorch, GPUs

Web 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

PROJECTS

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.

Driver Safety Device | [Link](#)

- Developed a real-time driver fatigue detection system, achieving 98% accuracy in drowsiness detection.
- Integrated IR sensors with an Arduino Nano to monitor eye movement and trigger instant alerts.
- Designed dynamic UI components for an interactive user experience.
- Designed a compact, easy-to-install device using Fusion360.

Tech Stack: Arduino Nano, Relay Motor Driver, IR Sensors, Arduino IDE, MicroPython, Fusion360

CERTIFICATES

- Smart India Hackathon (SIH)-2024 | [Link](#)
- Data Structure and Algorithm (DSA) | [Link](#)
- Amazon Web Service (AWS) | [Link](#)

EXTRA CURRICULAR ACTIVITIES

- Solved 50+ problems on LeetCode, 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