

Pravesh Pandey

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EDUCATION

Motilal Nehru National Institute of Technology

Bachelor of Technology

Uttar Pradesh, India

June 2019 – June 2023

EXPERIENCE

Software Development Engineer

May 2024 – Present

Amazon

Bangalore, India

- Enabled Pattern Match of Alexa expansion to 18 locales, with along with reducing the latency for binary loading and search performance.
- Architected and delivered a highly efficient SearchComponent within the Search microservice, improving search performance and user experience. Designed and deployed a high-efficiency SearchComponent within the Search microservice, boosting query performance and user satisfaction.
- Led the migration of 9 microservices from JDK8 to JDK17, leveraging modern Java features to simplify codebase and reduce compute costs by 15%.
- Technology Used:** Java, AWS, DynamoDB, Microservices architecture.

Software Engineer

Oct. 2023 – April 2024

nFolks Data Solutions

Remote, India

- Built a parallel processing framework leveraging multi-threading, improving database retrieval speeds by 68%.
- Optimized data frames for large-scale processing and analytics, enhancing system performance.
- Technology Used:** Python, Flask, REST-API, Jenkins, SQL.

Software Development Intern

Jan. 2022 – March 2022

Phyt Health

Pune, India

- Developed an AI-guided fitness app with real-time posture correction and exercise tracking, piloted by 500+ early users with 4.2 average feedback.
- Implemented real-time video conferencing for direct physiotherapist-patient interaction and support.
- Technology Used:** JavaScript, Node.js, React.js, Babel, TensorFlow, and Twilio API, C++.

PROJECTS

IMME2022 Website | *HTML, CSS, JavaScript, Bootstrap, Python, SQL*

Jan. 2022 – June 2023

- Led the development of the IMME2022 conference website, incorporating user feedback and updating session schedules to enhance visitor engagement.
- Collaboratively designed and maintained the website, ensuring adaptability and responsiveness.

Sudoku Solver | *Python, Open-CV, TensorFlow, Deep learning*

Jan. 2021 – Feb. 2021

- Developed a Sudoku solver app leveraging a custom CNN model for precise grid and digit recognition, enhancing puzzle-solving efficiency.

ACHIEVEMENTS

Technex2020 – Top 3 Finisher at IIT BHU TECHNEX2020 in Maze Explorer.

Prosang2020 – Winner, Project Exhibition Prosang2020 at MNNIT Allahabad.

MongoDB Certification (2023) – MongoDB Specialization (MongoDB, Inc).

HackerRank Certified (2021) – Consistent excellence demonstrated on the platform.

Algorithms Specialization (2020) – Tim Roughgarden (Stanford).

TECHNICAL SKILLS

Strongest Area: Data Structure & Algorithm, C/C++

Languages: Python, SQL, JavaScript

Frameworks: ReactJS, Flask

Technologies: Git, Docker, Jenkins, REST-APIs

Libraries: pandas, NumPy, Matplotlib, TensorFlow

Database: MySQL, MongoDB, Redis

Additional Skills: Strong problem-solving abilities, CI/CD Pipelines, Automation scripting, familiarity with cloud infrastructure and distributed systems.