SHUBHAM PRAKASH

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Summary

Aspiring Software Development Engineer (SDE) with a strong foundation in full-stack development using the MERN stack and proficiency in Java, Python, and C. Knowledgeable in data science and machine learning, with experience in enhancing application performance and user experience through collaborative projects. Eager to apply technical skills and analytical abilities in a challenging SDE role to contribute to innovative solutions.

Work Experience & Certifications

Bharat Intern | Internship   Oct'23 - Dec'23
- Completed a 2-month internship focused on frontend development.
- Developed responsive web applications using HTML, CSS, JavaScript, and React.js, enhancing user engagement by 40%.
- Enhanced UI/UX and boosting website performance by 30%.

MERN Stack Development | Certification   Oct'23 - Present
- Acquired proficiency in developing full-stack web applications utilising the MERN stack (MongoDB, Express.js, React, Node.js).
- Strengthened skills in creating RESTful APIs, managing SQL and NoSQL databases, and implementing secure user authentication and authorization mechanisms.

Education

Indian Institute of Technology Madras, IIT Madras, India | **Level: Diploma**   June '23-Present
- Branch: Data Science & Application | CGPA: **8.0** | Degree:a Bachelor of Science(B.S.)

Kalinga Institute of Industrial Technology, KIIT Bhubaneswar, India (2nd Year)   *July '23 - Present*
- Branch: **CSE** | CGPA: **8.95** | Degree: Bachelor of Technology(B.Tech.)

Chinmaya Vidyalaya Bokaro, Jharkhand, India
June '23
- AISSCE (Class XII), Aggregate: 87.6%
- AISSE (Class X), Aggregate: 94.4%   *May '21*

Technologies & Skills

Programming Languages: Java, Python, C, Kotlin, JavaScript | **Development**: NodeJS, React, ExpressJS, MongoDB, MySQL | **Technologies**: Machine Learning, Git, DBMS | **Core Competencies**: Data Structures & Algorithms, Problem Solving | **Soft Skills**: Teamwork, Communication

Projects

Pixelated image detection system   Jun'24
- Collaborated on an AI-powered web application using Flask and TensorFlow to detect and remove pixelation from images, improving image quality by up to 70%.
- Implemented advanced image processing algorithms, ensuring smooth pixelation detection and de-pixelation, resulting in a 50% faster processing time.
- Designed a user-friendly interface for easy image upload and download, enhancing user satisfaction by 40%.

House Price Predictor   Feb'23
- Created a robust machine learning application that leverages location and property characteristics to forecast housing prices, enabling real estate professionals to make data-driven decisions and enhancing customer satisfaction ratings by 20%.
- Utilised TensorFlow to create models with 90% accuracy in forecasting house prices. Leveraged Matplotlib for data visualisations, improving decision-making efficiency by 40%.
- Optimised numerical operations using advanced NumPy techniques, reducing data processing time by 35% and enhancing overall system performance by 25%.

Learning Management System   May'20
- Developed a responsive frontend using HTML, CSS, JavaScript, and Bootstrap, increasing user engagement by 40% through intuitive navigation and design.
- Built a scalable backend with PHP, reducing response time by 30% and supporting over 1,000 concurrent users.
- Implemented core features for course management, user administration, and content delivery, boosting course completion rates by 50%.

Academic and Extracurricular Achievements

- **International Math Olympiad**: Achieved a rank of 272 out of 15,000 participants globally.
- Contributed to the planning and execution of multiple events, including OMEGA 4.0, OMEGA 3.0, SkillHunt, and BIZZ Battle organised by FED KIIT.

Positions of Responsibility

Federation Of Entrepreneurship Development(FED KIIT) | Senior Technical Executive   Oct'23 - Present
- Working as a MERN stack web developer, responsible for managing and enhancing the organisation's website, leading to a 30% improvement in website performance.
- Collaborating with cross-functional teams on various projects, ensuring smooth integration and delivery of features, increasing project efficiency by 40%.

Student Council Member   Jun'17 - Jun'19
- Led a student committee to promote accountability and respect, actively engaging over 400 students in discussions, which improved student conduct by 30%.
- Improved and implemented a new code of conduct, gaining approval from the school administration and enhancing adherence to guidelines by 40%.