

SHIVAM MISHRA

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CITY- Hanoi

Innovative and results-driven software developer with 3.5 years of experience in GUI development, backend API maintenance, and troubleshooting automated processes. Passionate in Scientific (PCMB) Research and Proficient in Node.js, React JS, React Native, and MongoDB, with a strong foundation in Object-Oriented and Functional Programming. Adept at collaborating with cross-functional teams to identify and implement solutions for complex technical challenges. Proven ability to adapt quickly to new technologies and methodologies. Additionally, possess a solid background in biotechnology IoT systems, integrating smart sensors and data collection devices for real-time monitoring of biological processes. Strong foundation in Physics, Chemistry, Biology, and Mathematics (PCMB), enabling a multidisciplinary approach to solving complex problems in biotechnology and bioinformatics.

-Professional Experience:

Software Developer- Google

- Spearheaded GUI development initiatives, leveraging cutting-edge front-end technologies to enhance user experience and interface functionality.
- Played a key role in troubleshooting end-user issues and automated processes, ensuring seamless operation and minimal downtime.
- Developed and maintained backend APIs, employing Node.js and adhering to RESTful web service principles.
- Conducted thorough unit testing to validate software functionality and identify potential areas for improvement.
- Analyzed errors and devised effective solutions, collaborating closely with managerial, engineering, and technical personnel.
- Independently created comprehensive software development documents and design documents.
- Demonstrated in-depth knowledge of related systems, optimizing performance and scalability for enhanced efficiency.
- Actively contributed ideas to troubleshoot and resolve application issues promptly, ensuring uninterrupted service delivery.
- Interacted with stakeholders as required, facilitating clear communication and alignment on project objectives.
- Completed ad hoc duties as necessary to support team objectives and project milestones.

Software Engineer- Microsoft

- Led the development of backend systems and APIs, leveraging cloud technologies to enhance scalability and performance.
- Contributed to integrating machine learning algorithms in software applications, optimizing process automation and improving user experience.
- Collaborated with cross-functional teams to identify and resolve technical challenges, ensuring timely project delivery.
- Conducted rigorous testing and debugging to ensure software quality and reliability, significantly reducing the occurrence of post-deployment issues.
- Created and maintained comprehensive documentation for software projects, facilitating seamless knowledge transfer and future development efforts.
- Provided mentorship to junior developers, fostering a culture of continuous learning and improvement within the team.

Education:

Bachelor's Degree

Swami Vivekanand University

- Specialized in Informatics and Computer Engineering
- Strong foundation in Physics, Chemistry, Biology, and Mathematics (PCMB)
- Led College team to win PCB Tech Hackathon two times in two years in a row, winning first prize.

Doctorate of Philosophy | Informatics and Computer Engineering

Vietnam National University – Current PhD Candidate

- Research Focus on Artificial Intelligence
- Specifics on Vision Language Models, Healthcare AI Applications

Skills: -

Technical Skills:

- **Biotech & Healthcare:**
 - **Biotech IoT Systems:** Experienced in integrating IoT solutions with biotech systems, including the development and deployment of smart sensors and data collection devices for real-time monitoring of biological processes.

- **PCR and Gel Electrophoresis:** Hands-on experience in performing Polymerase Chain Reaction (PCR) and analyzing results with gel electrophoresis.
- **Bioinformatics Tools:** Proficient in using bioinformatics software for genetic data analysis, including sequence alignment and protein structure prediction.
- **Programming & Development:**
 - Proficient in Python, MySQL, DevOps, Linux/Unix and Windows systems, including kernel-level knowledge and file systems.
 - Proficient in Node.js (NestJS), React JS, React Native, and Flutter.
 - Strong understanding of Object-Oriented and Functional Programming paradigms.
 - Experienced with CQRS Pattern and MongoDB, including MongoDB Charts.
 - Skilled in building and maintaining RESTful web services and APIs.
- **Software Development:**
 - Service-Oriented Architecture (SOA) and Microservices.
 - Familiarity with Scrum frameworks and Agile methodologies.
 - Experience with Amazon Web Services (AWS) is advantageous.
 - Knowledge of Docker/container and container orchestration.

Soft Skills:

- Excellent communication skills in English, both written and verbal.
- Strong problem-solving and analytical skills.
- Cross-functional team leadership and collaboration.
- Customer-focused approach to problem resolution.
- Adaptability and ability to work in high-pressure environments.

Certifications: -

- TECHNICAL SUPPORT FUNDAMENTALS- GOOGLE
- CYBER SECURITY PLEDGE- (MINISTRY OF IT, GOVT OF INDIA)
- RISK AND INFORMATION SYSTEM- IRISA

Projects: -

Smart Biotech Monitoring System: -

Description: Developed a Smart Biotech Monitoring System integrating IoT sensors with a cloud-based platform to monitor and control biotechnological processes in real time. The system was used to track environmental conditions like temperature, humidity, and pH levels in a laboratory setting, ensuring optimal conditions for microbial growth and protein synthesis. The project utilized sensors connected through a low-power wide-area network (LPWAN) and employed machine learning algorithms to predict potential system failures and optimize process parameters.

