

Shivani Bhandari

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Punjab, India

Education

UIET Panjab University, Chandigarh

Jun 2021 - May 2025

Bachelor of Engineering in Electronics and Communication Engineering

Experience

Semiconductor Laboratory, Mohali

Jun 2024 – Jul 2024

Software Developer Intern

- Spearheaded process automation for the SEZ01 wet etching tool, optimizing efficiency and redefining process parameters for superior outcomes.
- Designed and implemented automated solutions, streamlining process control and data analysis while collaborating with cross-functional teams to seamlessly integrate software and hardware systems.

AMTRON, Guhawati

Jan 2023 – Mar 2024

Dashboard Developer

- Developed and implemented a dynamic Project Monitoring Dashboard in collaboration with engineers, streamlining project tracking, management, and reporting for improved workflow efficiency.
- Optimized data visualization tools to enhance stakeholder engagement, enabling clearer insights, better collaboration, and more informed decision-making.
- Refined data processing methods to strengthen accuracy and integrity, ensuring seamless project tracking, improved navigation, and precise performance evaluation.

Projects

Online Code Compiler

- Architected and deployed a full-stack Online Code Runner, seamlessly integrating C++ and Python support within a web-based editor for real-time code execution.
- Engineered a robust backend with GCC, Python interpreter, and Docker containers, ensuring isolated and secure execution environments.
- Leveraged MongoDB for efficient data storage and retrieval, optimizing performance and scalability for a seamless user experience..

TwinProtocol

- Engineered a dynamic suite of interactive and responsive components using React, TypeScript, Tailwind CSS, MUI, shadcn, and Zustand, optimizing performance and enhancing user engagement.
- Integrated AI, Blockchain technologies, and REST APIs to ensure secure operations and seamless user interactions.
- Designed and implemented intuitive interfaces for creating, publishing, and training AI twins, incorporating interactive chat functionalities for an enhanced user experience.

Technical Skills

- Languages:** Java, Python, C++, JavaScript, TypeScript, SQL
- Technologies:** React.js, Vue.js, jQuery, Node.js, Express.js, Flask, MongoDB, AWS, Kafka
- Developer Tools:** Git, GitHub, VS Code, Linux, Docker and CI/CD Pipeline
- Concepts:** Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing

Certification and Achievements

- Deploy applications with Azure DevOps (Microsoft, 2024)
- The Ultimate React Course 2023: React, Redux & More (Udemy, 2023)
- Excelled in GSSoC, demonstrating exceptional problem-solving skills and active contribution.
- Secured a top rank in the prestigious Consultathon by BITS Pilani, showcasing strategic thinking and analytical expertise.
- Led as ML Sub-Head for GDSC UIET, Chandigarh, curating impactful workshops and successfully organizing multiple hackathons to foster innovation and learning.