Abhishek Ray

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EDUCATION

University of Southern Mississippi   Hattiesburg, MS
Bachelor of Science in Computer Science

PROJECTS

Flight Management System   (View on YouTube) — (GitHub)
- Created using C++ and AVL Trees for efficient data storage and retrieval.
- Enabled passengers to book, update, or cancel tickets.
- Created a dynamic seat map for visualization.

Personal Portfolio Website   (Live Site)
- Built with HTML, CSS, and JavaScript to showcase projects and skills.
- Responsive design for mobile and desktop devices.
- Hosted on DigitalOcean for fast, reliable performance.

Smart Checkout App   (Demo)
- Developed a web app using HTML, CSS, JavaScript, and Node.js.
- Calculates final payable amount with tax, discounts, and coupons.
- Modular logic in `calculation.js`, executed via `index.js` using Node.

EXPERIENCE

CSCE Ambassador   Jan 2025 – Present
USM, School of Computing Sciences and Computer Engineering   *Hattiesburg, MS*
- Assist incoming and prospective students by explaining CSCE majors, career paths, department culture, and available opportunities.
- Provide campus tours and facilitate informational sessions on academic programs, research opportunities, and student resources.

GIS Trainer   2023
NYCAGG Project (EU-funded)   *Janakpur, Dhanusha*
- Trained volunteers to use GIS-enabled mobile app for collecting geo-tagged data on waste and roadside garbage to support community-driven environmental monitoring.
- Collaborated with a core team to visualize collected data, generate insights, and support research efforts aimed at influencing local environmental governance and policy.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript
Frameworks: React, Node.js
Databases: SQLite
Developer Tools: Git, GitHub, VS Code
Concepts: OOP, Data Structures and Algorithms

HONORS & AWARDS

Top 7 Finalist, Accelerate Smart Cities Innovation Challenge 2023 at George Mason University: research project on extracting valuable substances from industrial waste streams using advanced tech. [Link]

Top 10 Finalist, Tapojärvi Innovation Challenge 2023 organized by the European Institute of Innovation and Technology: for same project

President's List (4.0 GPA in 2nd & 3rd semester), Dean's List (1st semester)

Academic Excellence Full Scholarship — Covered tuition, housing, and meals

Course Certification — Introduction to Mathematical Thinking, Stanford University [Link]