

Arjun Pun Magar

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EDUCATION

The University of Southern Mississippi

B.S. in Computer Science

Hattiesburg, MS

Jan. 2024 – June 2027

EXPERIENCE

Software Engineering Intern (Game Design)

June 2025 – Present

Sports and Media Inc

Hybrid

- Developed and optimized gameplay systems using programming languages such as Java/C++ to improve performance and player experience.
- Collaborated with cross-functional teams including artists and engineers to implement interactive features and UI/UX prototypes.
- Implemented data structures and algorithms to manage game events, player progression, and real-time stats integration.
- Conducted code reviews, debugging, and iterative testing to enhance gameplay balance and stability.
- Skills:** Java, C++, Gameplay Programming, Data Structures, Debugging, Team Collaboration, Agile Development

Desk Assistant, Office of Residence Life

Jan 2025 – Present

University of Southern Mississippi

Hattiesburg, MS

- Assisted residents and staff with housing inquiries and campus resources, improving communication and support.
- Monitored resident safety protocols and enforced building access procedures.
- Organized and documented maintenance requests, streamlining operations and improving response time.
- Demonstrated reliability, professionalism, and attention to detail in a fast-paced campus environment.
- Skills:** Communication, Organization, Campus Support, Customer Service

PROJECTS

Flight Booking System | C++, Data Structures (AVL Tree)

Spring 2025

- Built a console-based flight booking system using C++ and AVL Trees for efficient CRUD operations on passenger data.
- Implemented real-time 2D seat map visualization using terminal UI and a dynamic seat matrix.
- Enabled range-based and name-based search, in-order traversal, and deletion using AVL Tree logic.
- Collaborated with a team of 4; structured code into modules and documented design and testing plans.
- Skills:** C++, AVL Trees, Data Structures, Team Collaboration, Terminal UI

Developer Portfolio Website | Next.js, Tailwind CSS, Framer Motion

Summer 2025

- Customized and deployed a personal developer portfolio site showcasing projects, skills, and resume.
- Integrated scroll-based animations and particle backgrounds to enhance visual engagement.
- Used reusable components and modular design with SEO optimization; deployed on Vercel.
- Skills:** Next.js, Tailwind CSS, Framer Motion, Vercel, Web Development

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, HTML/CSS, SQL

Frameworks & Libraries: React, Next.js, Tailwind CSS, Framer Motion, Flask, FastAPI

Tools & Platforms: Git, GitHub, Vercel, VS Code, Linux, Terminal

CS Foundations: Data Structures and Algorithms (AVL Trees), Object-Oriented Programming, API Design