

Aashish Dhakal

Software Engineer

662-200-0709 | dhakal.aashish27@gmail.com | LinkedIn: aashishdhakal | GitHub: aadhakal

EDUCATION

University of Mississippi (Ole Miss)

Oxford, Mississippi

May 2025

- B.S. in Computer Science (Honors), Emphasis in Data Science

PROFESSIONAL EXPERIENCE

Greenserv Inc.

Batesville, Mississippi

Software Engineering Intern- Business Operations

May 2023 – Aug 2023

- **Advanced Data Processing:** Resolved over 20,000 data anomalies under the guidance of non-technical mentors by crafting *Python scripts* to clean and merge datasets from diverse sources, significantly boosting data quality and operational accessibility by 30%.
- **Logistics Optimization:** Developed a route optimization system using *Python and Pandas* from scratch, achieving a 90% increase in efficiency. Created advanced data visualization tools with *Power BI and MS Excel* to track and enhance logistics processes.

ADDITIONAL EXPERIENCE

Ole Miss Hacks

Oxford, Mississippi

Hackathon Organizer & Project Manager

Nov 2023–Present

- **Leadership:** Directed the organization of a large-scale hackathon, attracting over 300 participants, partnering with Major League Hacking (MLH), and securing 15+ sponsors for the upcoming fall event.
- **Technology Management:** Designed and deployed event websites, which facilitated seamless registration and communication before and during the event for participants and the committee members.
- **Team Management:** Led a cross-functional team of 20+ members, along with the sponsors, developers, designers, and university administration, to ensure a comprehensive and engaging event, achieving an 85% satisfaction rate in post-event feedback.

PROJECTS & HACKATHONS

Nevalone: AI Companion, Harvard University

Team Lead

[Project Link](#), [DEVPOST Link](#)

- **AI Innovation for Healthcare:** Led the development of an AI-based solution designed to assist memory-impaired individuals, utilizing *TensorFlow, Lang chain, OpenAI API, and Vector DB*. Awarded Best First Time Hack in a pool of 630-participant at HackHarvard 2023.
- **User-Centric Design:** Engineered a secure caregiver portal to streamline user interaction and data management, integrating *Angular, Ionic, Node.js, Express.js, and Firebase*.

Smart Thermostat Project

Product/Project Manager & Lead Developer

- **IoT and Machine Learning Integration:** Spearheaded the development of a Raspberry Pi-based smart thermostat incorporating *voice commands and adaptive machine learning algorithms*, enhancing user comfort based on environmental changes.
- **Project Management:** Guided the project through a structured 9-month development cycle using *Agile methodologies*, focusing on market readiness and user acceptance through extensive *A/B testing and predictive modeling*.

Anspire – Customer management app

Team member

[Project Link](#)

- **Scalable System Development:** Developed a scalable customer management application using *React, Node.js, SQL on Azure, and Express.js*, efficiently managing over 30,000 user profiles, which improved system performance by 25%.
- **Enhanced Data Security:** Implemented a sophisticated three-tier user permission system, enhancing data security and reducing security vulnerabilities, contributing to the project's completion ahead of schedule.

SKILLS

Programming Languages: Java, Python, C, JavaScript/TypeScript, PHP, HTML, CSS

Libraries / Frameworks: Angular, React, Node.js, Ionic, REST API, jQuery

Project Management: Agile & Scrum methodologies, A/B testing, Microsoft Office Suite

Databases: MYSQL, SQL, MongoDB, PostgreSQL, Firebase