Dharambir Agrawal

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* Full-Stack Development • Machine Learning • Real-Time Systems • DevOps

**Impact:** Technical blog posts and 1 online course on Pathgurus, Received Dean’s Commendation for exceptional web‑development work.

# EDUCATION

**Bachelor of Computer Science,** Grambling State University, GPA: 4.0/4.0 **Aug 2024 — Present**

# PROJECTS

**PATHGURUS,** [**LINK**](https://pathgurus.com) **Dec 2024 — Present**

* Engineered a scalable content platform built on Dockerized Next.js and MongoDB; launched with a CI/CD pipeline to enhance UX metrics by 70% and cut deployment friction by 60%.
* Executed targeted SEO and content strategies, increasing monthly traffic by 40% and expanding subscriber base by 25% in six months.

**GAMETICTAC,** [**LINK**](https://tic-tac-toe-gcrs.onrender.com) **April 2025 — May 2025**

* Created a real-time multiplayer Tic Tac Toe game with WebSocket (Socket.io + Node.js), handling 100+ concurrent sessions with sub-100ms latency for seamless gameplay.
* Designed and embedded an AI opponent via Minimax algorithm, enabling strategic gameplay in both solo and multiplayer modes on a live web app.

**NOURISHNOW,** [**LINK**](https://nourishnow.vercel.app) **Sept 2024 — Sep 2024**

* Pitched and championed an innovative full-stack recipe app concept during a team hackathon; took lead in researching and integrating Clarifai and Edamam APIs to create a novel food-to-recipe solution under tight 6-hour constraints.
* Boosted user experience scores by 50%, enabling fast photo-to-recipe conversion and winning “Best Functional Prototype” recognition.

# EXPERIENCE

**Web Developer (Intern)** **May 2025 — Aug 2025**

College of Business, Grambling State University – Grambling, LA

* Led development of new web features and enhancements for internal platforms, streamlining performance and improving functionality across multiple departments.
* Established a cross-departmental collaboration system with IT and communications teams; formulated and implemented innovative strategies to increase visibility of faculty research and professor portfolio beyond original scope of responsibilities.

**Web Content Assistant (Intern)** **Oct 2024 — May 2025**

IT Department, Grambling State University – Grambling, LA

* Audited and identified accessibility gaps in academic program pages; proposed and implemented comprehensive optimization strategies to enhance site-wide user experience.
* Recognized branding inconsistencies and initiated a collaborative project to standardize design elements; developed and presented innovative navigation solutions and improved user interface beyond initial requirements.

# SKILLS

**Languages** Python, JavaScript, HTML/CSS

**Frameworks** Next.js, Node.js, SHADE-CN, Tailwind CSS, Express.js

**Developer Tools** Git, VS Code, PyCharm, Vercel

**Libraries** React, NumPy, TensorFlow, Keras

**Database** PostgreSQL, MongoDB

**Microsoft office** Excel, Word, PowerPoint

**Developer tools** Git, Docker, GitHub Actions (CI/CD), VS Code

# CERTIFICATIONS & TECHNICAL WRITING

1. IBM Applied AI Professional Certificate, IBM/ Skillbuild (Sept 2024).
2. CS50: Introduction to Artificial Intelligence, Harvard (April 2025).

# AWARDS & HONORS

**2024** Full‑Ride Scholarship, Grambling State University; President’s List