

# Riyaj Chaulagain

+1 (985) 403-2266 | [criyaj2017@gmail.com](mailto:criyaj2017@gmail.com) | [in/riyajchaulagain](https://in/riyajchaulagain) | [riyajchaulagain.com.np](https://riyajchaulagain.com.np)

## EDUCATION

**Southeastern Louisiana University (SELU)**, Hammond, LA

**Expected Graduation: May 2027**

*B.S. Computer Science, Minor in Mathematics - Major GPA: 3.94/4.0*

- **Relevant Coursework:** Data Structures & Algorithms (Java), Software Engineering (ASP.NET), Computer Architecture, Computer Organization, Game Development, AI/ML, Operating System

## TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, C#, Python, C++, SQL, HTML/CSS
- **Frameworks/Tools:** React, Vue, .NET Core, GitHub Actions, Express, Next.js, MongoDB, Firebase, Flask, FAST API, React Native, Microsoft Azure, WordPress, Docker, REST API, TensorFlow, Node.js, Linux

## WORK EXPERIENCE

**Student Developer, SLU Supply Chain Management Office**

**November 2024 – August 2025**

- Built and maintained web apps using **React**, **Angular**, and **ionic** for academic research.
- Refined **WordPress** sites to enhance UX and streamline inter-departmental tasks, and integrated **OpenAI API** to build a **chatbot** for user-specific queries.
- Developed an **e-library platform** (React + Firebase) with **copyright protection**, **live database** and **auto-expiry**.

**Computer Science Tutor, Praxis Preparation Tutoring, Energize Team**

**June 2025 - Present**

- Tutored **30+ students** in **Java**, **Python**, **data structures**, **OOP**, **dynamic programming**, **graph algorithms** (**Dijkstra**, **BFS/DFS**), **recursion**, and **complexity analysis**.
- Developed **50+ study resources** (problem sets, mock exams, algorithm guides) on **algorithms** and **CS fundamentals** aligned with curriculum standards.
- Boosted student **exam performance** by **20%**, measured through **pre/post assessments**.

## PROJECT EXPERIENCE

**AI Mock Interviewer – React + AI model (Phi-2)**

**May 2025 - June 2025**

- Built an **AI interview prep tool** using **Microsoft Phi-2** to **analyze resumes** and **generate interview questions**.
- Implemented **text-chunking**, **keyword extraction**, and **custom-prompt question generation**.
- Designed a **responsive React + Mantine CSS frontend** with **history page** and **feedback module**.
- **Technologies:** React, Node.js, Mantine CSS, Hugging Face (Phi-2), Prompt Engineering

**LLM-Powered Document Assistant – Fine-tuned Phi-2**

**June 2025 - July 2025**

- **Fine-tuned Phi-2** model on domain-specific documents for context-aware PDF Q&A.
- Used **vector retrieval** and **prompt-tuning** for accurate, document-specific chatbot responses.
- **Technologies:** Python, Hugging Face, LangChain, React

**ACTIV-ATE – Full-Stack Web App**

**January 2025 – May 2025**

- Developed a **fitness tracking platform** for calorie intake, exercise logging, and progress visualization.
- Integrated **C# .NET backend with MySQL** to manage user goals, dynamic calorie calculations, and analytics.
- **Technologies:** C# .NET, React, MySQL, Mantine CSS

**RIFT (Real-time Incident Forecasting & Triage)**

**August 2025 - Present**

- **Developing deep learning + computer vision pipeline** for real-time incident detection using urban camera feeds and social signals.
- **Building triage system with LLMs** and interactive dashboard for **live inference & analytics**.
- **Technologies:** Python, PyTorch, YOLOv5, LLM APIs, React.js, Docker, Linux

## AWARDS & LEADERSHIP

- **Activities:** Certificate of Technical Interview Practice with Java, Dean's List All Semester @SELU, Member of Association of Computing Machinery (ACM)