

# Dol Raj Bashyal

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## EDUCATION

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The University of Southern Mississippi

Expected May 2027

**BS Computer Science | Mathematics Minor**

GPA: 4.0 /4.0 cumulative

## PROJECTS

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### **Research Paper Parser | .NET MAUI, C#, XAML, SQLite, Google Gemini API**

Software Development Foundations Project (CSC 317)

- Developed a cross-platform app using .NET MAUI to simplify research by generating concise summaries of academic papers.
- Implemented secure user authentication with registration and login functionalities.
- Enabled document upload (PDF/DOC formats), integrated Google Gemini API for text extraction and summarization, and displayed summaries clearly within the app.
- Built a persistent summary history feature leveraging SQLite database for easy tracking and retrieval.
- Emphasized modularity by separating backend logic, database management, and frontend design.

### **Spam Word Detection in Mail using Trie Data Structure:**

Developed a spam word detection system as part of a Data Structures Project. The project involved creating a Trie data structure to efficiently store and search for spam words in email content.

- Technologies Used: C++, Qt Framework, Git
  - Implemented a Trie data structure to store spam words.
  - Developed functions to add, delete, and search for words in the Trie.
  - Created a user-friendly GUI using Qt for interacting with the system.
  - Enabled multi-line input for email content and displayed detected spam words.
  - Utilized Git for version control and collaboration.

## EXPERIENCE

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### **Software Engineering Team Member**

Aug 2023- Present

Google Developer Student Club, USM

Hattiesburg, MS

- Learned Web Development by creating a Ticketing Website project.
- Gained groupwork, time management and interpersonal skills.

### **Concession Cashier**

Sep 2023-Present

Aramark

Hattiesburg,MS

- Managed different payment options, processed customer orders.
- Ensured a clean and organized work environment.

## HONORS AND LEADERSHIPS/EXTRACURRICULAR

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### **President's List Term Honor, University of Southern Mississippi**

Aug 2023- Present

*University of Southern Mississippi*

### **Academic Excellence Full Tuition Scholarship**

Aug 2023- Present

*University of Southern Mississippi*