

# DINESH CHHANTYAL

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## EDUCATION

### University of Louisiana at Monroe

Monroe, LA

Bachelor of Science in Computer Science, Minor in Mathematics, GPA: 4.0 / 4.0

Aug 2022 – Dec 2025

- Coursework: Object-Oriented programming, Data Structures, Analysis of Algorithm, Linear Algebra, Statistics

## EXPERIENCE

### Web Developer

Jan 2023 – Present

University of Louisiana - Monroe

Monroe, LA

- Created a reusable **PHP Drupal module** to integrate **Microsoft Teams API**, solving communication inefficiencies and achieving a **20% increase** in student collaboration
- Engineered an **ETL pipeline**, migrating **10,000+ records** from Drupal 8 to 10, optimizing data structures and reducing redundancy, resulting in a **15% improvement** in query speed and a **10% reduction** in storage
- Conducted comprehensive **end-to-end testing** across department webpages, improving issue detection by **75%** and ensuring a seamless user experience before deployment

### Software Developer

Oct 2022 – May 2023

Clamphook - EdTech Startup

Lalitpur, Nepal

- Enhanced the **Computer-Based Testing (CBT)** platform to support 5,000 concurrent users, driving a **2-3x** increase in enrollment through a streamlined API architecture in both frontend and backend
- Engineered a secure backend for **CH Loyalty Points** and integrated a reward redemption system, resulting in a **30%** surge in real-time test participation and a **20%** boost in student content engagement
- Spearheaded the development of an intuitive **user metrics dashboard** for students and administrators using Chart libraries, leading to an **8%** improvement in student consistency and a **25%** enhancement in content efficiency

### Frontend Developer

Oct 2021 – Dec 2021

Padhao Academy

Bagmati, Nepal

- Migrated a Laravel-based web application to a high-performance **Next.js** frontend, improving **SEO** and reducing page load times by **20%**, which led to a **10%** increase in organic traffic
- Implemented a robust **JWT-based** authentication system, reducing unauthorized access incidents by **30%**

## PROJECTS

- CheerPal** — Spearheaded a team of **6 members**, overseeing the development of a reminder application. Integrated **Firebase Cloud Messaging** for real-time notifications and utilized machine learning models for personalized product recommendations from **Amazon** and **Walmart**, employing **content-based filtering**
- Prime Number Theory Research** — Conducted research on the **Meissel-Lehmer algorithm** and **Prime Counting Functions** under Dr. Jemin Shim. Performed and analyzed prime counting up to  $10^{18}$  in **314,900 seconds** (approximately **87.75 hours**), demonstrating the efficiency of the algorithms used
- Trip Planner** — Developed a trip planning application utilizing **Dijkstra's algorithm** and the **Google Maps API** to optimize travel routes based on time and distance, resulting in a **60% reduction** in travel route planning time
- Airfoil Simulation** — Developed a Python-based **Finite Element Method (FEM)** simulation for airfoil pressure distribution, improving first-time understanding by **40%** for master's students at Pulchowk Engineering Campus

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, JavaScript, SQL, HTML, CSS, Shell Scripting, Dart

**Developer Tools:** Git, Linux, Google Cloud Platform, AWS, SSH, Atlassian, Agile, Jupyter, OpenAPI, REST API, GitHub

**Technologies:** React.js, Redux, TailwindCSS, pandas, NumPy, Matplotlib, scikit-learn, Manim, PyTorch, TensorFlow

## ACTIVITIES & CLUB INVOLVEMENT

- Google Developer Group on Campus: ULM, President**, Aug 2024 – Present  
Directed a team of 12 board members and 250+ club members to organize impactful events, including a hackathon, tech exhibition, workshops, and mentorship programs focused on **Software, AI/ML, Cloud, InfoSec, and IOT**
- ICPC NA South Division 2024, State Champion**, Nov 2024  
Solve advanced algorithmic problems for 5-hour competition to win the **State Champion** title in Division 1
- MAA LA/MS Section Meeting, Integration Bee Third Place**, Feb 2024  
Earned **3rd place** among **55+ participants** and attended workshops on data science, and modeling