

# 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 (Senior)

– OOP, Data Structure, Linear Algebra, Data Structures, Statistics, Database Management, Operating Systems, Computer Networks

## EXPERIENCE

Full Stack Developer

Jan 2023 – Present

University of Louisiana - Monroe

Monroe, LA

- Developed a custom **PHP/Drupal** module leveraging **OAuth 2.0** to sync **Microsoft Teams API** with the university's CMS, automating calendar and file-sharing workflows to resolve communication bottlenecks and increase student collaboration by **20%**.
- Engineered a **Python/MySQL ETL pipeline** to transform and migrate **10,000+ legacy records** into **Drupal 10**, implementing data validation scripts and normalized schemas to reduce redundancy, accelerate query speeds by **15%**, and cut storage costs by **10%**.
- Automated end-to-end testing for **50+ department webpages** using **Selenium** and **Cypress**, integrating tests into a **CI/CD pipeline** (GitHub Actions) to boost pre-deployment issue detection by **75%** and reduce post-launch user-reported errors by **30%**.

Software Developer

Oct 2022 – May 2023

Clamphook - EdTech Startup

Lalitpur, NP

- Developed a **Flask** and **React**-based **Computer-Based Testing (CBT)** platform with **Redis session caching** and **Nginx load balancing**, enabling **5,000+ concurrent users** and driving a **40% reduction in server latency** to support **5x enrollment growth**.
- Architected a **Docker-based microservices infrastructure** for **Flask** backend APIs and **React** admin panels, automating **CI/CD pipelines** with **GitHub Actions** to deploy a **React Native iOS app** that achieved **5,000+ downloads** and **99.9% uptime** post-launch.
- Designed a real-time metrics dashboard using **Chart.js** and **Flask-SocketIO**, integrated with **PostgreSQL query optimizations**, to increase student consistency by **8%** and content efficiency by **25%** through actionable data insights.

Frontend Developer

Oct 2021 – Dec 2021

Padhao Academy

Remote (Kathmandu, NP)

- Built a **Next.js/TypeScript**-based **RBAC system** with **JWT encryption** and **OAuth 2.0** integration, eliminating unauthorized access vulnerabilities and achieving **100% compliance with GDPR standards** for **5,000+ users**.
- Reduced critical bugs by **90%** by designing **Postman test suites** and peer review workflows, slashing post-deployment user-reported issues by **40%** across **15+ application modules**.
- Collaborated with designers via **Figma** to implement a **Carbon Design**-based interface with dynamic math rendering using **KaTeX**, while streamlining deployments via **GitHub Actions CI/CD** to cut release cycles by **30%** and accelerate feature delivery.

## PROJECTS

- **NoteMeet** — Developed an **AI-powered meeting note-taking platform** that automates **transcription, summarization, and organization** of meeting notes. The platform integrates with **browser extensions** to record meetings, transcribe audio using **AWS Transcribe**, and store notes securely in **Amazon S3**. By leveraging **AWS Lambda** for **serverless processing** and **DynamoDB** for **real-time data access**, the system reduces manual note-taking effort by **80%** and improves meeting productivity. — [Link](#)
- **TimeClock** — Built an **enterprise-grade time management system** to streamline **employee attendance tracking and workforce management**. The system features **real-time GPS tracking, role-based access control, and automated reporting**, enabling managers to monitor attendance effectively. Additionally, the platform provides **next payday, payment summaries, and insights into departmental projects and employee expenses**. — [Link](#)
- **Amazon Clone** — Created a **full-stack e-commerce platform** mimicking Amazon's **core functionality**, including **user authentication, product listings, and a secure payment system** powered by **Stripe**. The application uses **React.js** for the **frontend** and **cloud functions** for backend processing, delivering a seamless shopping experience with **90% uptime**. — [Link](#)
- **Prime Number Theory Research** — Conducted research under Dr. Jemin Shim on the **Meissel-Lehmer algorithm** and **Prime Counting Functions** using **Python** and **NumPy**, achieving efficient prime counting up to  $10^{18}$  in **314,900 seconds**. Created visualizations to compare the efficiency of five different prime counting methods using **Matplotlib**. — [Link](#)
- **Trip Planner** — Designed a **trip planning application** that helps users optimize **travel routes** by adding **destinations and activities**. Integrated **Google Maps API** for **route visualization** and implemented the **Dijkstra algorithm** to calculate the most efficient paths, reducing travel planning time by **40%**. — [Link](#)

## TECHNICAL SKILLS

**Programming Languages:** Python, C/C++, Go (Learning), JavaScript, Java  
**Cloud & Systems:** Kubernetes, Docker, AWS, CI/CD, API Design  
**AI & Performance:** NumPy, Pandas, Matplotlib, Performance Optimization  
**Development Tools:** Git, System Design, Algorithms, Documentation

## ACTIVITIES & CLUB INVOLVEMENT

- **Google Developer Group on Campus ULM, President** Aug 2024 – Present
- **ICPC NA South Division 2024, State Champion** Nov 2024
- **MAA LA/MS Section Meeting, Integration Bee Third Place** Feb 2024
- **Association for Computing Machinery (ACM), Member** Aug 2022 – Present