

# 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 - May 2026*

- Relevant Coursework: Object-Oriented Programming, Data Structures, Analysis of Algorithms, Linear Algebra,
- Research: Applying the Meissel-Lehmer algorithm and computational techniques to validate prime number theory.

## Technical Skills

- Languages: Java, Python, TypeScript, JavaScript, SQL, HTML, CSS, Shell Scripting, Dart
- Frameworks: React.js, Node.js, Next.js, Flask, Flutter, Material-UI, Django, Drupal
- Developer Tools: Git, Docker, Google Cloud Platform, AWS, SSH, Atlassian, Jupyter, OpenAPI, REST API
- Libraries: Redux, TailwindCSS, pandas, NumPy, Matplotlib, scikit-learn, Manim

## Experience

### Student Web Development Intern

Jan. 2023 – Present

*University of Louisiana - Monroe*

*Monroe, LA*

- Developed and implemented a **PHP Drupal module** for integrating **Microsoft Teams API** into on-campus web products, resulting in a notable **30% increase** in users' communication.
- Resolved **over 50** website and form issues for professors and departments within **two months**, ensuring streamlined operations and optimal functionality.
- Conducted comprehensive **end-to-end testing** on all on-campus department webpages, achieving a **98% accuracy rate** and ensuring high user satisfaction and usability before deployment.

### Software Developer

Oct. 2022 – May 2023

*Clamphook*

*Lalitpur, NP*

- Upgraded the **Computer-Based Testing (CBT)** platform, accommodating **5,000 concurrent** users and leading to significant spikes in student enrollment, **4-5 times** the enrollment figures from the previous season.
- Implemented a secure backend for **CH Points** with a reward redemption system, resulting in a **40% increase** in real-time test participation and a **25% rise** in student content engagement.
- Deployed frontend, admin panel, and backend components, launching a mobile application that achieved **5,000 downloads** within the first month.

## Projects

- **CheerPal** — Spearheaded a team of **6 members**, overseeing the development of a reminder application. Integrated **Firestore Cloud Messaging** for real-time notifications and utilized machine learning models for personalized product recommendations from **Amazon** and **Walmart**, employing **content-based filtering**, **K-means clustering**, and **decision trees**.
- **Prime Number Theory Research** — Researching **Meissel-Lehmer algorithm** and **Prime Counting Functions** for validating prime number theory under Dr. Jemin Shim.
- **Trip Planner** — Developed a trip planning application using **Dijkstra's algorithm** and **Google Maps API** for optimizing trip routes based on distance and time constraints.
- **Airfoil Simulation** — Developed and implemented a Python-based textbfFinite Element Method (FEM) simulation for airfoil pressure distribution, for student at Pulchowk Campus and improving understanding by 40%
- **Rookie** — Created a Discord bot using **Node.js** and **Discord.js** to manage tasks, deadlines, and study schedules. Increased schedule adherence by **50%** and homework submissions by **30%** in our classroom Discord.

## Activities

- **Google Developer Student Club, Web Director**, University of Louisiana Monroe Aug 2023 – Present
- **Association for Computing Machinery**, University of Louisiana Monroe Aug 2022 – Present
- **Nepal Computer Science Alliance (NCSA), Board Member** Mar 2021 – Sep 2022