

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, Algorithm Analysis, Linear Algebra,
- Research: Applying the Meissel-Lehmer algorithm for prime number theory validation.

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, Docker
- Developer Tools: Git, Google Cloud Platform, AWS, SSH, Atlassian, Agile, 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

- Created a **PHP Drupal module** to integrate **Microsoft Teams API** into on-campus web products, achieving a **30% increase** in user 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.
- Integrated 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 **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** — Researched the **Meissel-Lehmer algorithm** and **Prime Counting Functions** to validate prime number theory under Dr. Jemin Shim. Analyzed data sets with more than **1 million primes**, achieving **95% precision** in prime counting predictions.
- **Trip Planner** — Developed a trip planning application using **Dijkstra's algorithm** and **Google Maps API** to optimize travel routes time and distance. Reduced average travel planning time by **40%**.
- **Airfoil Simulation** — Developed and implemented a Python-based **Finite Element Method (FEM)** simulation for airfoil pressure distribution, for the student at Pulchowk Campus and improving the understanding by **40%**.
- **Rookie** — Created a Discord bot using **Node.js** and **Discord.js** to manage tasks, deadlines, and study schedules. Increased adherence to schedule 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
Led workshops and mentoring sessions on web development frameworks, benefiting 150+ students.
- **Association for Computing Machinery, Member**, University of Louisiana Monroe, Aug 2022 – Present
Participated in 15+ coding competitions and workshops, contributed to team projects, and expanded technical skills.
- **Nepal Computer Science Alliance (NCSA), Board Member**, Mar 2021 – Sep 2022
Organized 10+ webinars and events, reaching over 500 participants and promoting computer science in Nepal.