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** into on-campus web products, achieving a **30% increase** in user communication
- Engineered a ETL pipeline using **Python and SQL**, successfully migrating **10,000+ records** from Drupal 8 to 10, resulting in a **40% improvement** in database query speed and a **25% reduction** in storage requirements
- 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, Nepal*
- Enhanced the **Computer-Based Testing (CBT)** platform to support 5,000 concurrent users, driving a **4-5x** 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 **40%** surge in real-time test participation and a **25%** 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 **30%** enhancement in content efficiency

Frontend Developer — Oct 2021 – Dec 2021
Padhao Academy — *Bagmati, Nepal*
- Crafted a high-performance Next.js frontend, optimizing for **SEO** and elevating page load times by **30%**, leading to a **15%** boost in **organic traffic**
- Architected a robust **JWT-based** authentication and authorization system, enhancing security and reducing unauthorized access incidents by **40%**

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** — Designed and implemented a trip planning application using **Dijkstra's algorithm** and **Google Maps API** to optimize travel routes for time and distance. Helped save **60% time** in travel route planning
- **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%**

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

Activities

- **Google Developer Group on Campus: ULM, President**, Aug 2023 – Present
  Directed workshops and mentorship on web development, machine learning, data science, benefiting **150+** students
- **Association for Computing Machinery, Member**, 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