

Dinesh Chhantyal

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Summary

Junior Computer Science major with a strong focus on software development, data analysis, and AI. Experienced in developing web and mobile applications, contributing to cloud solutions, and working within agile teams. Enthusiastic about open-source projects and decentralized data infrastructure.

Education

University of Louisiana at Monroe

Monroe, LA

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

Aug. 2022 - May 2026

- Relevant Coursework: Object-Oriented Programming, Data Structures, Analysis of Algorithms, Discrete Structures, Linear Algebra, Mathematical Statistics

Technical Skills

- Languages: Java, Python, TypeScript, JavaScript, SQL, HTML/CSS, 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 Developer

Jan. 2023 – Present

University of Louisiana - Monroe

Monroe, LA

- Enhanced on-campus web products by integrating the Microsoft Teams API, facilitating dynamic interaction between students and instructors, resulting in a 30% increase in user engagement.
- Ensured user satisfaction through rigorous pre-publication testing, achieving a 98% accuracy rate across 65% of the on-campus department's webpages.

Software Developer

Oct. 2022 – May 2023

Clamphook

Lalitpur, NP

- Developed a robust Computer-Based Testing (CBT) platform, supporting up to 5,000 concurrent users, resulting in 4-5 times spikes in student enrollment.
- Designed an intuitive admin panel, reducing administrative overhead by 30% and improving content management efficiency.
- Successfully deployed frontend, admin panel, and backend components, launching a mobile application that achieved 5,000 downloads within the first month.

Hardware and Software Solution Intern

Jan. 2022 - March 2022

Baba Computer IT Solution

Pokhara, NP

- Diagnosed and resolved hardware issues in a school computer lab, reducing downtime by 40%.
- Assembled and restored 20 personal computers, delivering reliable hardware solutions for clients.

Projects

Airfoil Simulation | Python, Matplotlib, Pandas, NumPy

Oct. 2022 – Dec. 2022

- Programmed Airfoil Simulation using Python for pressure distribution calculations and visualization using Finite Element Method (FEM).
- Enabled 100+ Mechanical Engineering students at Pulchowk Campus to utilize visualization and simulation tools, increasing comprehension of Fluid Dynamics by 30%.

Electronic Voting System | C, React, Sockets, Git, GitHub

Sept. 2022 – Oct. 2022

- Led the development of an electronic voting system with a team, primarily using C for terminal interfaces.
- Developed a live status feature on the web using sockets, enhancing real-time interaction and user engagement.

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