

# DINESH CHHANTYAL

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## SUMMARY

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I am a highly motivated and passionate software developer with a strong foundation in computer science. I have experience in various areas, including web development, data visualization, and mobile development. I also enjoy using tools such as pandas, matplotlib, generative AI, and manim to solve diverse real-life problems using knowledge of mathematics and physics. I am a problem solver and team player with a strong desire to learn and grow.

## EDUCATION

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### University of Louisiana - Monroe

Bachelor's, Computer Science

August 2022 - June 2025

GPA: 4

- **Relevant Courses:** Python, Java, Object Oriented Programming, Data Structure, Discrete Structure, Linear Algebra

## PROFESSIONAL EXPERIENCE

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### University of Louisiana - Monroe

Web Development Intern

Monroe, LA, USA

January 2023 - Present

- Perform comprehensive pre-publication testing, ensuring impeccable quality and error-free webpages for production.
- Drive enhanced online presence and user satisfaction by crafting dynamic, user-friendly webpages for departments like the Museum of Natural History, ULM Alumni, and ULM test management.
- Streamline data collection and processing through proficient management of an in-house web forms system, meeting client needs effectively.
- Integrated third-party web services, including the integration of Microsoft Teams API into our web application for effective interaction between students and instructors.

### Clamphook

Software Developer

Remote

January 2022 - Present

- Enhanced on-site student behavior understanding by implementing progress metrics based on time-based and practice tests.
- Amplified student capacity by developing a Computer-Based Testing (CBT) platform handling up to 5,000 concurrent users through efficient shift management, resulting in 4-5 times increase in student enrollment.
- Streamlined internal processes and productivity by creating an intuitive admin panel for bug tracking, question sets, payments, and blog posts management.
- Drove student engagement by spearheading backend development for the Karma Points system, integrating rewards for improved participation.
- Ensured high-performance and accessibility by deploying frontend, admin panel, and backend components, including a successful launch of mobile app on the Apple App Store.
- Utilized an array of technologies (React.js, Next.js, SSR/SSG/ISG, Typescript, RestAPI, Redux, Tailwindcss, KaTeX Markdown, Blueprint.js, Ant Design, Figma, Flask, MongoDB, Jira, Atlassian, Postman, Git, Webhooks, Flutter, EC2, S3) to deliver robust and efficient solutions.

### Clamphook Academy

EPCM Content Creator and Physics Tutor

Remote

May 2021 - July 2022

- Delivered engaging live Physics and Mathematics tutoring sessions, helping students prepare for their competitive examination.
- Created comprehensive notes and multiple-choice questions, providing valuable study materials for students.
- Assisted students in solving problems related to the Institute of Engineering (IOE) Entrance exams, covering Physics, Mathematics, Chemistry, and English subjects.
- Technology used:
- Adobe Premier Pro, Microsoft Office, Microsoft whiteboard, Desmos, LaTeX markdown, Adobe Photoshop, Adobe Illustrator, Zoom, Discord.

### Baba Computer IT Solution

Hardware and Software Intern

Pokhara, Nepal

January 2022 - May 2022

- Successfully installed and troubleshooted software, ensuring smooth and efficient computer operations for clients.
- Assembled and repaired personal computers, providing reliable and functional hardware solutions.
- Installed Wi-Fi and CCTV systems, enhancing the technological infrastructure and security of the clients' premises.

#### **Padhao Pvt. Ltd.**

*Frontend Developer*

**Remote**

*October 2021 - December 2021*

- Tested and reviewed code for quality assurance, identifying and resolving bugs and issues.
- Utilized Next.js, Typescript, Carbon Design, TailwindCSS, KaTeX, Postman, Figma, Jira, and CI/CD technologies to create a robust and visually appealing frontend solution.

## **PROJECTS & OUTSIDE EXPERIENCE**

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#### **Riemsum calculation and visualization**

*Personal Project*

**Monroe, LA**

*November 2022 - November 2022*

- Developed a python project focused on calculating the area under the curve for different equations, providing approximate values for definite integrals using Riemsum method.
- Implemented left, right and mid-point algorithms to perform numerical integration and visualized the results using matplotlib.

#### **Computational Physics and data visualization**

*Group Project*

**Lalitpur, Nepal**

*June 2021 - July 2021*

- Collaborated on a project involving the calculation and visualization of pressure distribution throughout an airfoil using Python, Matplotlib, Pandas, and other relevant technologies.
- Additionally, utilized Finite Element Method (FEM) to calculate temperature and created heatmaps based on given raw data.

#### **Mini Election System**

*Pulchowk Campus Group Project*

**Pokhara, Nepal**

*May 2021 - March 2021*

- Developed a project in C language to create a voting booth system, enabling efficient and secure voting processes.
- Implemented web data streaming capabilities to provide real-time updates on the voting progress.

#### **Covid Infection Map**

*Personal Project*

**Pokhara, Nepal**

*April 2020 - April 2020*

- Created a web application using React.js, Material UI, Leaflet, Firebase, and external APIs.
- Designed an interactive map displaying Covid-19 infection data from reliable sources.

## **SKILLS**

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**Skills:** Proficient in Python (Flask, Django), JavaScript (React.js, Next.js, Node.js), Java, TypeScript, Flutter, HTML/CSS; experienced in web development (full stack), data analysis (Pandas, Matplotlib, Jupyter), mobile development, version control (Git, Gitlab, Github), cloud services (AWS, GCP, Firebase); adept at Agile, Atlassian tools (Jira, Confluence)

**Multilingual:** Fluent in English, Hindi, and Nepali.

## **PROJECTS & OUTSIDE EXPERIENCE**

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#### **Google Student Developer Club at ULM, GDSC ULM**

*Web Director*

**Monroe, LA, USA**

*September 2023 – Present*

#### **Association for Computing Machinery at ULM**

*Club Member*

**Monroe, LA, USA**

*August 2022 – Present*

#### **Nepal Computer Science Alliance**

*Executive Member*

**Remote, Nepal**

*March 2021 – August 2022*

#### **Malika Lower Secondary School**

*Volunteer Teacher*

**Myagdi, Nepal**

*Seasonal*

#### **IT Student of Nepal**

*IT Member*

**Remote, Nepal**

*July 2020 – Present*