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 (Senior)

- OOP, Data Structure, Linear Algebra, Data Structures, Statistics, Database Management, Operating Systems, Computer Networks

EXPERIENCE

Full Stack Developer

Jan 2023 - Present

Monroe, LA

University of Louisiana - Monroe

- Developed a custom PHP/Drupal module leveraging OAuth 2.0 to sync Microsoft Teams API with the university's CMS, automating calendar and file-sharing workflows to resolve communication bottlenecks and increase student collaboration by 20%.
- Engineered a Python/MySQL ETL pipeline to transform and migrate 10,000+ legacy records into Drupal 10, implementing data validation scripts and normalized schemas to reduce redundancy, accelerate query speeds by 15%, and cut storage costs by 10%.
- Automated end-to-end testing for 50+ department webpages using Selenium and Cypress, integrating tests into a CI/CD pipeline (GitHub Actions) to boost pre-deployment issue detection by 75% and reduce post-launch user-reported errors by 30%.

Software Developer

Oct 2022 - May 2023

Lalitpur, NP

Clamphook - EdTech Startup

- Developed a Flask and React-based Computer-Based Testing (CBT) platform with Redis session caching and Nginx load balancing, enabling 5,000+ concurrent users and driving a 40% reduction in server latency to support 5x enrollment growth.
- Architected a Docker-based microservices infrastructure for Flask backend APIs and React admin panels, automating CI/CD pipelines with GitHub Actions to deploy a React Native iOS app that achieved 5,000+ downloads and 99.9% uptime post-launch.
- Designed a real-time metrics dashboard using Chart.js and Flask-SocketIO, integrated with PostgreSQL query optimizations, to increase student consistency by 8% and content efficiency by 25% through actionable data insights.

Frontend Developer

Oct 2021 - Dec 2021

Remote (Kathmandu, NP)

Padhao Academy

- Built a Next.js/TypeScript-based RBAC system with JWT encryption and OAuth 2.0 integration, eliminating unauthorized access vulnerabilities and achieving 100% compliance with GDPR standards for 5,000+ users.
- Reduced critical bugs by 90% by designing Postman test suites and peer review workflows, slashing post-deployment user-reported issues by 40% across 15+ application modules.
- Collaborated with designers via Figma to implement a Carbon Design-based interface with dynamic math rendering using KaTex, while streamlining deployments via GitHub Actions CI/CD to cut release cycles by 30% and accelerate feature delivery.

PROJECTS

- NoteMeet Developed an AI-powered meeting note-taking platform that automates transcription, summarization, and organization of meeting notes. The platform integrates with browser extensions to record meetings, transcribe audio using AWS Transcribe, and store notes securely in Amazon S3. By leveraging AWS Lambda for serverless processing and DynamoDB for real-time data access, the system reduces manual note-taking effort by 80% and improves meeting productivity. — Link
- TimeClock Built an enterprise-grade time management system to streamline employee attendance tracking and workforce management. The system features real-time GPS tracking, role-based access control, and automated reporting, enabling managers to monitor attendance effectively. Additionally, the platform provides next payday, payment summaries, and insights into departmental projects and employee expenses. — Link
- Amazon Clone Created a full-stack e-commerce platform mimicking Amazon's core functionality, including user authentication, product listings, and a secure payment system powered by Stripe. The application uses React. is for the frontend and cloud functions for backend processing, delivering a seamless shopping experience with 90% uptime. — Link
- Prime Number Theory Research Conducted research under Dr. Jemin Shim on the Meissel-Lehmer algorithm and Prime Counting Functions using Python and NumPy, achieving efficient prime counting up to 10¹⁸ in 314,900 seconds. Created visualizations to compare the efficiency of five different prime counting methods using Matplotlib. — Link
- Trip Planner Designed a trip planning application that helps users optimize travel routes by adding destinations and activities. Integrated Google Maps API for route visualization and implemented the Dijkstra algorithm to calculate the most efficient paths, reducing travel planning time by 40%. — Link

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, Assembly

Embedded Systems: ADC/DAC, PWM, I2C, SPI, RS232, Hardware Debugging **Development Tools:** Oscilloscope, Function Generators, Git, Test Automation Software Engineering: System Design, Firmware Development, Test Documentation

ACTIVITIES & CLUB INVOLVEMENT

• Google Developer Group on Campus ULM, President

Aug 2024 - Present Nov 2024

• ICPC NA South Division 2024, State Champion • MAA LA/MS Section Meeting, Integration Bee Third Place

Feb 2024

Association for Computing Machinery (ACM), Member

Aug 2022 - Present