Sumit K C

Software Engineer

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Summary

Software engineer with experience building production web platforms, payment and booking integrations, AWS cloud environments, and AI-powered systems. Focused on reliable, well-tested software that cuts manual work and improves performance.

Experience

Cloud Systems and Teaching Assistant October 2025 - Present
City University of Seattle Seattle, WA

- Maintained the cloud and application environments for 6 to 7 graduate courses per quarter (AWS EC2, S3, Lambda; Python, React, machine learning), diagnosing configuration, permission, and dependency failures for 500+ students.
- Rebuilt five graduate-course lab environments on AWS with standardized instance setups and LMS integration settings, reducing setup failures to nearly zero.
- Debugged and fixed a grade-sync defect in the LMS-to-gradebook integration by comparing exported scores against gradebook records and correcting the assignment mapping, then re-synced grades for 250+ students within 24 hours.

Software Engineer June 2023 - November 2024
Aankhijhyal Technologies Pokhara, Nepal

- Integrated three payment and booking REST APIs (eSewa, Khalti, reservations) into client PHP/Laravel platforms with payment initiation, server-side verification, and booking confirmation; replaced manual order handling, saving about five hours per week.
- Cut page load times by approximately 40% across 5+ client sites by tracing the delays to oversized image galleries, unused plugins, and repeated database lookups, then compressing images, removing plugins, and caching pages.
- Delivered 15+ client platforms with Nepali and English content, inquiry forms, and owner-editable admin panels, cutting delivery time by 15% with a written scope document and approved wireframe before coding.

Software Engineer Intern September 2022 - November 2022
Aankhijhyal Technologies Pokhara, Nepal

- Deployed three client websites to production (live server, domain, SSL) after testing every page, form, and booking flow; no reported post-launch issues.
- Built a local development setup with a sample database and setup guide, cutting project setup from about 3 hours to under 1.
- Built inquiry and booking forms that validated input and emailed owners; fixed pages that crashed on missing data.

Projects

MealMate.ai - AI-Powered Meal Planning Platform

- Contributed to a team-built React, Node.js, and FastAPI app with a hybrid recommender (TF-IDF, LSA, collaborative filtering) that placed the right recipe among its top 5 results during testing.
- Team features include Gemini cooking assistance, pantry parsing, vision-based ingredient capture, and deterministic offline fallbacks.

CarePolicyGuard - Policy-Aware Clinical Coverage Verification

- Built a FastAPI multi-agent system that checks patient records against Medicare (CMS) coverage rules for prior-authorization reviews and quotes the exact record text behind each decision.
- On 10 sample patient cases it was right every time with every quote verified (a plain LLM prompt: 60% right, 45% verified), and it sent 20% of uncertain cases to human review.

Parallax-Eval - Cross-Lingual AI Safety Evaluation

- Built an English/Nepali LLM safety benchmark (80 paired prompts; Python, FastAPI, LangGraph, RAG) that exposed a 56.4-point refusal gap (Nepali 38.2% vs. English 94.6%); a hybrid defense cut it to 3.2 points with +15 ms latency.
- Implemented Judge-Critic-Arbiter agents with McNemar tests and bootstrap 95% CIs.

Skills

Languages: Python, Java, C#, PHP, JavaScript, TypeScript, R, Dart, SQL, HTML, CSS
Frameworks: Flutter, Laravel, React, Next.js, Node.js, Express, FastAPI, Flask
Data Science / **ML**: TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, Posit (RStudio), LangGraph, RAG
Databases: MySQL, PostgreSQL, MongoDB, SQLite
Cloud / **Tools**: AWS (EC2, S3, Lambda), Docker, Git, GitHub Actions, REST APIs, Agile, Scrum
AI Tools: Claude Code, GitHub Copilot, ChatGPT, Gemini

Education

City University of Seattle Seattle, WA
M.S. in Computer Science, GPA: 4.0/4.0 | *Dean's List: Winter 2025 - Spring 2026* January 2025 - December 2026 (expected)

Informatics College Pokhara (Affiliation: London Metropolitan University) Pokhara, Nepal
Bachelor of Science in Computing | *AAA Scholarship Recipient* | *Top of the Cohort* March 2020 - December 2023

Certifications

Microsoft Certified: Azure AI Fundamentals | Azure Data Fundamentals | Azure Administrator Associate | Fabric Data Engineer Associate