CHRIS BHAILA

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OBJECTIVE

AI/ML-focused developer with full-stack experience in Laravel and Django, seeking a role in intelligent application development or machine learning engineering. Brings hands-on experience building production-grade web systems and actively developing AI-enabled applications.

EDUCATION

Bachelor's in Computer Application 2021 - *Present*
Thames International College, Kathmandu
Relevant Coursework: Web Technology, MySQL, Scripting Language, Computer Graphics, Data Structures and Algorithms, Probability and Statistics, Digital Logic, Numerical Methods, DotNet Technology, OOP in Java, Financial Accounting, Software Project Management, Artificial Intelligence

+2 2019 - 2021
Management with Computer Science
Little Angels' College of Management, Hattiban, Lalitpur, GPA: 3.38
Relevant Coursework: Economics, Calculus, C Programming

SKILLS AND INTERESTS

Skills	Web Development, Object-oriented Programming, Functional Programming
Programming	HTML, CSS, PHP, JavaScript, SQL, Python, C, Java, C#, Laravel, Django
Technologies	MySQL, MS Office, Git, PyCharm, Jupyter Notebook, scikit-learn, PyTorch, MATLAB, Laravel
Languages	Proficient in English, Nepali, and Newari
Interests	AI-enabled Application Development, UI/UX Design, Data Science, Web Development

INTERNSHIP

Full-Stack Developer Intern 2026
Nahusha Investment Pvt. Ltd. *Kathmandu, Nepal*

- Developed FloraNepal (`floranepal.com`), a nursery management web application, as the primary project deliverable using Laravel, Blade, Tailwind CSS, and Alpine.js
- Implemented token-based authentication with Laravel Sanctum and Google SSO via Laravel Socialite, enabling secure multi-provider user login
- Engineered an SPA-like navigation pattern using Alpine.js and custom `X-Dashboard-Navigate` headers, reducing full-page reloads across the dashboard

PROJECTS

DwellCasa – Hotel Management System 2026
GitHub: `https://github.com/chris-bhaila/DwellCasa`
Live: `dwellcasanepal.com`

- Designed a full-stack hotel management platform (Laravel, Alpine.js, Tailwind CSS) using the repository pattern to decouple business logic from data access across a multi-location tenancy model
- Implemented a status-based availability engine handling the full reservation lifecycle — bookings, check-ins, check-outs, and automated no-show resolution — preventing double-booking across concurrent requests
- Built a dual-track inventory system: consumable supplies with qty-based restocking and usage logs; durable equipment tracked by serial number, room assignment, condition history, and write-off status

· Enforced role-based access control across property locations — super admins switch between sites; admins and staff are scoped to their assigned property only

Traffic Hotspot Detection System 2026
GitHub: `https://github.com/chris-bhaila/Traffic-Accident-Hotspot-Detection-System`
Live: `https://traffic-onrender.com`

· Implemented DBSCAN from scratch using Haversine distance to detect 43 accident hotspots across Leeds (1,498 records), with epsilon selected automatically via the k-distance elbow method rather than hardcoded
· Built an ID3 decision tree from scratch (no scikit-learn) for accident severity prediction, achieving 63.5% accuracy; identified class imbalance as the primary failure mode (14 Fatal records vs 1,062 Slight)
· Developed dual-language scrapers for English (Kathmandu Post) and Nepali (OnlineKhabar) accident articles using Devanagari keyword dictionaries for severity, time, and weather extraction
· Deployed full-stack Django application on Render with PostgreSQL, serving an interactive Leaflet.js hotspot map and Chart.js analytics dashboard

Image Classification with Convolutional Neural Networks 2025
GitHub link: `https://github.com/chris-bhaila/CNN_variations`

· Implemented CNN using PyTorch for digit classification on the MNIST handwritten digit dataset
· Trained and evaluated different variations of CNNs such as LeNet, ResNet, and AlexNet
· Performed a comparative evaluation between the models with metrics such as accuracy, precision, recall, and F1-score

AI-powered Recommendation System for E-commerce Store 2025
GitHub link: `https://github.com/chris-bhaila/E-commerce-website-with-Product-Recommendation`

· Implemented a content-based product recommendation engine using Sentence-BERT embeddings and cosine similarity to compute semantic relevance between items
· Built full-stack e-commerce platform (PHP/Python, MySQL, HTML/CSS) with user authentication, inventory management, and item filtering
· Integrated a user rating system to capture feedback for future recommendation refinement