

TIKAHARU SHARMA

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EDUCATION

UNIVERSITY OF FLORIDA

Master of Science in Computer and Information Sciences

Coursework: Advanced Data Structures; Analysis of Algorithms; Mathematics for Intelligent Systems

Gainesville, FL

Aug 2025 - May 2027, Expected

TRIBHUVAN UNIVERSITY

Bachelor of Engineering in Computer Engineering

Coursework: Software Engineering; Artificial Intelligence ; Database Management Systems

Kathmandu, Nepal

Nov 2019 - Apr 2024

SKILLS

Languages: Python, JavaScript, C/C++

ML/AI: Machine Learning, Deep Learning, NLP, Reinforcement Learning, Model Training & Evaluation

Frameworks: ReactJS, Django REST, Node.js, PyTorch, TensorFlow, Keras, scikit-learn, SpaCy,

Libraries/Databases: Pandas, NumPy, SQL, MongoDB, PostgreSQL

Tools: Git, GitHub, Docker, Jupyter, Agile Development, AWS

WORK EXPERIENCE

SOFTWARE DEVELOPER

Danphe Software Labs

Apr 2024 – May 2025

Kathmandu, Nepal

- Engineered “ChitraGupta,” an internal HR system (**ReactJS, Node.js, PostgreSQL**) adopted by 50+ employees, automating leave requests and attendance tracking, and reducing manual HR work by **~40%**.
- Redesigned and optimized the company’s public website, modernizing UI/UX and improving load times, resulting in a **25% increase in monthly site visits** within three months.
- Implemented **full-stack workflows** (authentication, leave approvals, reporting dashboards) that streamlined employee management processes and reduced request-approval turnaround time by **35%**.
- Enhanced a client survey platform by fixing critical bugs, deploying new features, and building Python-based visualization tools, enabling HR teams to analyze employee feedback **2× faster**.

FOUNDER/PROJECT LEAD

Hire Nepal

Nov 2023 – Mar 2024

Kathmandu, Nepal

- Interviewed **15+ hiring managers and CEOs** across Nepal to map recruitment workflows and uncover inefficiencies; sharpening communication, active listening, and stakeholder engagement skills.
- Exercised **leadership** by guiding a 3-member development team in an Agile setup, translating industry research into technical features and ensuring the successful delivery of a scalable job portal.
- Directed the design of an **ML/NLP-powered Applicant Ranking and Recommendation System**, reducing recruiter shortlisting time by **60%** and cutting user job search time by **40%** through tailored recommendations.

PROJECTS

CV ANALYZER AND APPLICANT RANKING SYSTEM | GitHub

- Developed a job portal called Hire Nepal using **ReactJS** on the frontend and **Django REST API** on the backend, integrating features for job matching and applicant ranking to streamline hiring workflows.
- Built an **NLP-powered CV Analyzer** with scikit-learn and SpaCy that parsed resumes (PDF/Docx) into structured fields such as skills, education, and work experience, **improving recruiter efficiency by 30%**.
- Implemented a **machine learning ranking system** that matched candidate resumes to job descriptions, achieving **~85% alignment** with recruiter evaluations and improving the fairness of shortlisting.

FASHION RECOMMENDATION SYSTEM | GitHub

- Engineered a **deep learning–based recommendation engine** using Python, TensorFlow, and ResNet50 to analyze product images and identify visually similar fashion items.
- Achieved **92% top-5 accuracy** on the test dataset, demonstrating the effectiveness of computer vision models in real-world recommendation tasks.

SORTING ALGORITHM VISUALIZER | GitHub

- Developed an interactive ReactJS web application that visually demonstrated the execution of 6+ sorting algorithms, including MergeSort and QuickSort.