

# Sachin P. Chhetri

## Software/AI Application Engineer



### SUMMARY

Driven Computer Science graduate with 4+ years hands-on experience in software development, data engineering, and AI/ML. Skilled at designing and delivering scalable web and desktop applications. Seeking to leverage full-stack and analytics expertise to solve real-world problems in a global team.

### CONTACT

**Phone:** +1 (385)299-8464

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### TECHNICAL SKILLS

**Programming Languages:** Python, C#, C++, JavaScript (React.js, Node.js)

**Web & Mobile Development:** React.js, Node.js, Next.js, REST APIs

**Data & AI/ML:** Pandas, scikit-learn, TensorFlow, SQL (MySQL), MongoDB

**Tools & Platforms:** Git/GitHub, Figma, Photoshop, MS Office 365, Canva, Adobe

**Other:** Prompt Engineering, Vibe Engineering/Coding, Version Control

### PROJECTS

#### **Personal Portfolio Website | [See portfolio](#)**

Developed a modern, dark-themed portfolio using Next.js and Tailwind CSS, featuring server-side data fetching with ISR, animated particle effects, and Framer Motion reveal/hover animations. Built a custom AI chatbot powered by Google Gemini for interactive visitor engagement. Fully responsive across mobile, tablet, and desktop.

#### **Music-Genre Classification & Recommendation**

Engineered an end-to-end system on the GTZAN dataset (10 genres, 100 tracks each) to classify music by genre and recommend similar songs.

- Extracted MFCC features and visualized genre distributions.
- Implemented baseline Random Forest and SVM classifiers with scikit-learn.
- Achieved 62% test accuracy.
- Built an interface/demo pipeline that converts raw audio to mel-spectrogram embeddings and returns the top-5 most similar tracks via cosine similarity.

#### **Sentiment Analyzer Application**

Created a cross-platform Python desktop app to help businesses and individuals gauge customer sentiment from CSV-sourced reviews.

- Loads and secures review data without exposing confidential fields.
- Offers both quick “Basic” and deeper “Advanced” NLP analyses.
- Provides filtering (by date) and sorting (by sentiment or date)
- Visualizes sentiment distributions and extracts common topics for actionable insights.
- Includes side-by-side comparison of analysis methods in an intuitive GUI.

#### **High-Value Transaction Detection**

Developed a Python-based Random Forest classifier to flag anomalously large financial transactions.

- Built data-cleaning and preprocessing pipelines for raw bank data.
- Trained, validated and tested the model, tracking precision, recall and ROC metrics.

For more projects visit: [GitHub](#)

EDUCATION

Weber State University (WSU) | 2025 - Present

Ogden, Utah  
Master's in Computer Science

- Relevant Coursework:
  - Advanced Algorithm
  - Object Oriented Programming
  - Software Engineering I & II
  - Advanced SQL Database Knowledge
  - Business Communication
  - Prompt Engineering (AI, ML)
  - Deep Theory using ML/DL

Weber State University (WSU) | 2021 - 2024

Ogden, Utah  
Bachelor's in Computer Science

- GPA: 3.62

Kanto International Senior High School | 2016-2019

Tokyo, Japan  
High School

Kumudini Homes Higher Secondary School | till 2015

Pokhara, Nepal

PROFESSIONAL  
EXPERIENCE

Computer Science Tutor | 2024 - Present

Weber State University  
Engineering, Applied Science and Technology

- Provide one-on-one and group tutoring for students in CS, NET, and WEB courses, assisting with programming assignments, homework, and conceptual understanding.
- Support students in foundational and intermediate Computer Science courses (CS 1400, 1410, 2550, 2420) with an emphasis on troubleshooting, problem-solving, and practical coding skills.

Marketing and CRM Specialist | 2021 - 2024

Weber State University  
International Student and Scholar Center

- Boosted student engagement by 80% through targeted digital campaigns.
- Developed dynamic email templates (HTML/CSS/JS), enhancing outreach click-through rates.
- Queried and analyzed student data using SQL to optimize event success metrics.

Assistant Manager| 2016 - 2019

Lawson Store  
Tokyo, Japan

- Trained 5+ new hires, resulting in 25% faster onboarding time.
- Elevated store performance to Top 100 ranking among 10,000+ locations in Tokyo.
- Implemented efficient shift rotations, reducing labor overhead by 15%.

LEADERSHIP,  
VOLUNTEERING

Founder & President

Nepalese Student Association @ WSU

- Led a 500+ member international student group, coordinating cultural events, guiding new students, and launching mentorship initiatives.

International Student Mentor

International's Office

- Help first-semester students to make them feel home away from home supporting and guiding through cultural shock and academic difficulties like class registrations.

CERTIFICATES

Bachelor's of Science in Computer Science | 2024

Weber State University

Peer Mentor Certificate | 2024

Edulogy

LANGUAGES

Nepali  
Native

English  
Proficient

Japanese  
Proficient

Hindi  
Proficient

REFERENCES

Available upon request.