NICK SWISHER

COMPUTER SCIENCE ENGINEER

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LOCATION
Colorado Springs, Colorado

LINKED IN
Nicholas-Swisher0621

View my portfolio:
https://swish0621.github.io/

TECHNICAL SKILLS

LANGUAGES: C++, Python, SQL, C, Scala, Assembly

DATABASES: MongoDB, SQLite, PyMongo

FRAMEWORKS & LIBRARIES: pandas, praw, dotenv, FastAPI, scikit-learn, requests

DEVELOPMENT PRACTICES: OOP, TDD, CI/CD, Unit Testing

TOOLS: Git, GitHub, VS Code, command line, JupyterLab, MySQL Workbench

DATA & VISUALIZATION: Tableau

WEB: HTML, CSS

PROFILE

Motivated Computer Science student (3.8 GPA), graduating December 2025 with a post-baccalaureate BS at University of Colorado Boulder, with a prior degree in Kinesiology and Psychology from the University of North Texas. Experienced in Python, SQL, C/C++, and Git/GitHub, with hands-on project work in data pipelines, algorithm development, and database design. Passionate about building real-world software solutions; seeking internship or full-time opportunities to contribute to impactful technology projects.

REFERENCES

Available on request.

EDUCATION

2024 - 2025
APPLIED COMPUTER SCIENCE
University of Colorado, Boulder
BS Post-Baccalaureate
GPA: 3.8 | Expected Graduation: Dec., 2025
Data structures | Algorithms | Database Design & Analysis | Software Development Methods & Tools | Object-Oriented Programming | Data Mining | Linear Algebra

2016 - 2020
BS KINESIOLOGY
University of North Texas, Denton, Texas
Minor Psychology
GPA: 3.622 | Graduated: May, 2020
Honors: Cum Laude, Dean's List, President's List

PROJECT EXPERIENCE

CONTENT-BASED RECOMMENDATION SYSTEM - SOLO DEVELOPER

Python, SQLite, Pandas, scikit-learn, NumPy, FastAPI

Developed a movie recommendation engine in Python to gain hands-on experience with machine learning workflows, data processing, and model evaluation for real-world applications.

- Automated dataset retrieval from KaggleHub for reproducible, up-to-date data ingestion
- Designed and implemented a SQLite database with custom CRUD operations for structured movie data
- Built a data preprocessing pipeline to clean and transform raw datasets using TF-IDF, OneHotEncoder, and MultiLabelBinarizer
- Combined feature representations to compute similarity-based movie recommendations
- Integrated a FastAPI backend for serving recommendations via REST API

VIDEO GAME SENTIMENT ANALYSIS - GROUP PROJECT

Python, MongoDB, PRAW (Reddit API), Requests, python-dotenv, certifi

Collaborated on developing a platform that enables gamers to track live updates and game releases while analyzing public sentiment to provide real-time insights on community reactions.

- Developed data pipelines to ingest and process information from multiple third-party APIs (Reddit, Twitch)
- Managed API authentication and keys securely for each service
- Designed and implemented MongoDB database and operational functions to store, query, and update collected data
- Collaborated in a team using weekly Agile-style meetings

WORK EXPERIENCE

FRONT END MANAGER Safeway	2024-2025
ACCOUNT MANAGEMENT Spectrum	2023-2024
POWER SPORTS TECHNICIAN Rocky Mountain Cycle Plaza	2021-2023