

# Noah Schipper

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## EDUCATION

### University of Northern Iowa

*Bachelor of Science in Computer Science, Minor in Data Science*

Cedar Falls, IA

August 2025 – Present

### Kirkwood Community College

*Associate of Science*

Cedar Rapids, IA

August 2023 – May 2025

## PROJECTS

### AI-Powered Fragrance Finder | *Python, JavaScript, Hugging-Face, FastAPI* September 2025 – January 2026

- Created a full-stack AI-powered fragrance recommendation system serving 24,000+ fragrances with 3 search modes (similarity-based, accord (scent) filtering, and random discovery)
- Engineered a FastAPI backend with semantic search using Hugging Face Sentence Transformers, achieving instant similarity matching through precomputed 384-dimensional embeddings
- Designed a luxury aesthetic user interface with gold and navy color scheme featuring smooth transitions, hover effects, and interactive glowing borders
- Preprocessed and cleaned a Kaggle fragrance dataset, handling missing data and creating structured JSON representations

### Interactive Baseball Stat Application | *PostgreSQL, Python, JavaScript, HTML, CSS* July 2025 – January 2026

- Built a full-stack web application for viewing team and player baseball stats, integrating a Flask (Python) backend with a self-designed postgres database serving data to a responsive HTML/CSS/JavaScript frontend
- Combined the Lahman Baseball database with additional datasets into a unified postgres schema hosted on Supabase
- Leveraged SQLAlchemy within Flask routes to execute database queries, filter data, and format results for frontend display
- Optimized Flask code to stay under Render's 512 MB RAM limit, enabling player features in the final version
- Developed a dynamic frontend that fetched and rendered database results using asynchronous JavaScript (Fetch), enabling interactive exploration of baseball statistics
- Deployed the application on Render, providing a live platform for users to access and analyze baseball data

### Chromium Translator Extension | *HTML, CSS, JavaScript, Deep Translate API* June 2025 – August 2025

- Developed a Chromium extension using HTML, CSS, and JavaScript to provide seamless in-browser language translation
- Integrated the Deep Translate API to perform real-time translation asynchronously
- Designed the extension to be lightweight and user-friendly, offering translation in-extension, via tooltip, or in-line within text
- Implemented efficient DOM manipulation and event handling to ensure minimal impact on page performance
- Tested across multiple websites and browsers to ensure reliability and consistent functionality

### Java Blackjack Game | *Java, GUI Design, Agile Development*

March 2025 – May 2025

- Collaborated on a team project to develop a fully functional Blackjack game in Java, following an Agile development process
- Designed and implemented UI elements, including table layout, chips, and cards in order to create an interactive game experience
- Developed core gameplay logic, including card dealing, betting mechanics, and win/loss conditions
- Lead the team as scrum master/project manager for several weeks, assigning tasks and ensuring their completion in a timely manner
- Worked closely with teammates to integrate UI and game logic, ensuring a smooth, interactive experience

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL / SQLite / PostgreSQL, R, JavaScript, HTML, CSS

**Frameworks / Libraries:** Flask, SQLAlchemy, Pandas, Fast API, NumPy

**Web / Frontend:** Responsive Design, Fetch API, Interactive UI Elements, Toast Notifications

**Developer Tools / Hosting:** VS Code, GitHub, API Integration, BlueJ, RStudio, Kaggle, Excel, Render, Supabase, Cloudflare