

# Joseph Sabo

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## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C#, HTML/CSS, SQL

**Tools/Frameworks:** React.js, Node.js, Spring Boot, Flask, Git, Github, Docker, Oracle, JupyterNotebook, VsCode, Visual Studio

## PROFESSIONAL EXPERIENCE

### Code Ninjas

Mar. 2025 - Present

**Coding Instructor** | Scratch.jr, Scratch, Create, Javascript, Robotics

Airdrie, AB

- **Instructed students ages 6–14** on core programming concepts using interactive, project-based learning across various platforms like **ScratchJr, Scratch, Code.org's Create**, and **LEGO Education Spike Prime** for robotics.
- Assisted in **coding camps** focused on mobile app development using **MIT App Inventor** and game modding with **Minecraft Creator**, guiding students through hands-on projects that combine creativity with technical skills in a fun environment.
- Provided advice and assistance to various learning styles and skill levels, ensuring students remained **engaged** and confident while developing **computational thinking** and digital literacy within their **block code learning or JavaScript**.
- **Co-led in facilitating robotics workshops**, introducing students to hardware interaction, **sensor-based programming**, and practical applications of robotics, encouraging curiosity, engagement, and **problem-solving** in creative weekly robotic challenges.

### WeGuide

Mar. 2025 - Present

**Full-Stack Developer Intern** | JavaScript, Python, Mistral AI, Llama AI

Remote

- Conducted extensive research on advanced AI-driven document extraction techniques, evaluating **Mistral AI, Llama AI**, and other LLM models to enhance **text extraction accuracy** and minimize processing errors in PDF data retrieval.
- Designed and developed prototype pipelines that **automated PDF parsing**, data structuring, and format normalization, to significantly **reduce manual data entry by 80%** and enabling streamlined integration into existing data workflows.
- Developed and implemented Python-based automation scripts for **batch processing of PDF** documents, improving **data extraction** speed, format consistency, and error detection across large document sets to reduce single document input.
- Effectively collaborated and communicated with cross-functional teams to **identify workflow bottlenecks**, supporting improvements in document processing efficiency and uncovering **scalable automation opportunities** for the platform.

### Connect Link

Sept. 2024 - Nov. 2024

**Full-Stack Developer Intern** | JavaScript, Next.js, Node.js, Express.js, MongoDB

Remote

- Conducted research on **LinkedIn API** functionalities and integration, then developed an **automated profile data extraction system**, **reducing retrieval time by 40%** and enabling seamless data updates for scalability for future site development.
- Built a **secure and scalable LinkedIn API pipeline** using **OAuth authentication** and **RESTful** endpoints, enabling continuous profile data ingestion, transformation, and structured output for future analytics and platform integration.
- **Mentored** interns on Git best practices, API deployment workflows, and collaboration techniques, leading internal code review sessions and **reducing environment-specific bugs and merge conflicts** across multiple teams and branches.

## PERSONAL PROJECTS

**StudySync** | [Website](#) | [Github Repo](#)

Feb. 2025

Python, JavaScript, HTML/CSS, Flask, SQLAlchemy, PostgreSQL, Render

- Developed a **PostgreSQL**-backed full-stack application for improving studying habits with **positive feedback from 100+ users**.
- Created a credit-based reward system to promote balanced study sessions and **sustained user engagement**.
- Designed a task manager system with CRUD functionality, **increasing task completion rates by 25%** from user surveys.

**Facial Recognition Attendance Tracker** | [Github Repo](#)

Jan. 2025

Python, NumPy, Face\_Recognition, CV2

- Developed a facial recognition attendance system with **98% accuracy**, using a webcam for real-time face tracking and comparison.
- **Automated attendance** which logs both date and time with CSV and **NumPy**, **reducing manual single input tracking efforts by 40%**.
- Integrated face comparison and distance metrics for **enhanced verification**, achieving **high accuracy** in varying user images.

## EDUCATION

**Southern Alberta Institute of Technology**

Expected Dec. 2025

Diploma of Software Development - GPA: 3.64

Calgary, AB