PROFILE

Software Developer with a background in geophysics and 9+ years of international teaching experience. Built and deployed Northstar Languages, an AI-powered language-learning application integrating voice conversations, personalized feedback, and subscription billing. Skilled in JavaScript, Python, React, Node.js, and SQL, combining analytical problem-solving with firsthand knowledge of learner needs.

EDUCATION

University of Calgary

BSc in Geophysics

Graduated June 2015

- Received Jason Lang Scholarship in 2014 for outstanding academic performance.

SKILLS

- **Programming**: JavaScript, Python, SQL, MATLAB
- **Frontend**: React, HTML, CSS, Responsive Design
- **Backend**: Node.js, Express, Flask, REST APIs, Supabase Auth
- **Databases & ORM**: PostgreSQL, MySQL, MongoDB, SQLite, SQLAlchemy
- **AI & Payments:** OpenAI API, Realtime API, Stripe Checkout & Webhooks
- **Development Tools & Services:** Git, GitHub, Supabase, Render, Netlify
- **Data Analysis:** Pandas, NumPy, Matplotlib
- **Spoken Languages**: English (Native), Spanish (Fluent), Portuguese (Intermediate)

WORK EXPERIENCE

English Teacher

Idiomo Canada | Jul 2022-Present

- Teach Business and general English to adult learners using discussion-led methods.
- Design lessons that integrate data, case studies, and critical thinking.

English Teacher

ILA Vietnam | Sep 2017-Sep 2021

- Taught a wide range of ESL classes from beginner to advanced, focusing on clear communication and learner engagement.
- Trained junior teachers and created resource materials.

Nico Sherban

SOFTWARE DEVELOPER



PROJECTS

GitHub: https://github.com/nsherban1
Portfolio: https://nsherbanportfolio.netlify.app

Northstar Languages | AI Language Learning Platform
Creator & Developer (Oct 2026 - Present)

JavaScript, Node.js, React, Express, Supabase, OpenAI API, Stripe, Render

Website URL: northstarlanguages.com

- Developed a language-learning application integrating AI voice and text practice with structured CEFR A1–C2 lessons and personalized session feedback.
- Built authenticated REST APIs using Express and Supabase to manage learner profiles, practice sessions, feedback history, and curriculum progress.
- Integrated Stripe Checkout, customer billing management, and signature-verified webhooks to manage subscription access.
- Implemented server-side practice-time tracking and billing-period usage allowances, linking recorded voice-session time to lesson completion.
- Integrated OpenAI Realtime session creation with temporary client credentials and configurable instructions for learner level, lesson context, and language preferences.

Stock Market Dashboard (Aug 2025)

Python, Flask, Plotly, Marketstack API

Website URL: stockmarkettracker-vnhq.onrender.com

- Built a stock market dashboard using Python and Flask, integrating the Marketstack API to retrieve stock price and trading volume data.
- Created interactive Plotly charts displaying 30-day historical prices for multiple stocks.
- Designed a responsive dashboard with a dark-themed, card-based layout for comparing stock performance.

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