Sebastián Terrazas

Skills

Languages	Python – JavaScript – C – SQL – HTML – CSS – R – Ruby – LaTeX – ASP – English – Spanish
Technologies	Ruby on Rails – Angular – PHP – WordPress – Django – AWS – Azure – Docker – Clingo – OpenAI – BLOOM
AI	Fine-tuning – TensorFlow – PyTorch – Scikit Learn – Transformers – ML – Prompt Engineering

Experience

Edutecno

Software Engineer
- Engineered the frontend and backend of the AI-powered coding lesson generation feature on the Sophia website.
  Technologies: Angular (TypeScript) – OpenAI GPT-3 API – Azure Text-To-Speech API – Azure Functions (Server)

AI Developer
- Led a team in the implementation of Semantic Search, enabling an AI to answer questions based on a large corpus of data (.pdf, .txt, .docx, etc.).
  Technologies: OpenAI GPT-3 Similarity API
- Currently leading the development of an NLP model that not only provides theoretical knowledge but also enables the user to apply it in real-world situations, fulfilling the principles of teaching design.
  Technologies: BLOOM - PyTorch – Scikit Learn – Transformers – AWS SageMaker

NeoSer

Software Engineer
- Developed and implemented a software that seamlessly connected store sales with the billing system through effective communication and collaboration with the finance and sales teams.
  Technologies: Google Sheets, Invoicing API

Web Developer
- Collaborated with the marketing team to improve the web page by updating the database, revamping the visual design, and incorporating UX/UI best practices.
  Technologies: WordPress

MIT Human-Centered AI & Visualization Research Workshop

Member of the Student Cohort
- Attended a conference featuring lectures from MIT academics and AI experts, learning about AI applications in NLP, transparent AI decision-making, and brain signals understanding, as well as effective visualization methods. Contributed to group discussions and activities, effectively communicating my knowledge, and fostering an inclusive environment for idea exchange within the student cohort.

Education

Pontifical Catholic University of Chile
- Pursuing a Bachelor of Science in Engineering with a Computer Science major and Electrical Engineering minor.
- Teacher Assistant in Introduction to Programming.
- Teacher Assistant in Data Structures & Algorithms.
- Current College GPA: 6.2 / 7
- Highest Score on the Engineering Fundamentals Exam 2021-1.

Craighouse School

- Highest Score on Stanford Math Competition in Chile.
- Debate team: Represented Chile in a Latin America Model United Nations.
- International Baccalaureate (IB): 7 Physics HL – 6 Math HL – English & Spanish Bilingual Diploma
- Chilean High School GPA: 6.95 / 7
- PSU, former Chilean SAT (out of 850): GPA 824 – Ranking 850 – Spanish 708 – Math 811 – Science 817
- Two-time Regional Physics Competition Champion.
- Elected as Prefect by professors and peers.
- Received the School Spirit Award
- Valedictorian

College Coursework Projects

Web applications

- Developed a web-based carpool app for college campuses.
- Engineered a website and its associated database for tracking information about music artists, producers, events, and festivals.

AI

- Implemented reinforcement learning to train an AI to play Flappy Bird.
- Created and trained a machine learning model to predict the Olympic sport depicted in input images.
- Implemented reinforcement learning to train an AI to play Flappy Bird.
- Trained a model using Support Vector Machines to recognize characters presented as input.
- Developed an algorithm that automatically organizes schedules based on given restrictions, using the answer set programming (ASP) paradigm.

Electronics and Robotics

- Designed and built a robot capable of playing (basic) football.
- Build a radio from basic components