

Kais Jessa

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Self-driven software developer with 8+ years of Python experience. Eager to solve complex problems and passionate about learning new skills. An adept learner who can grasp and utilize new technologies with ease.

Education

McGill University

Sep 2019 - Oct 2022

First Class Honours in Mathematics and Computer Science (GPA: 3.98 / 4.00)

Montreal, Quebec

- **Awards:** Dean's Honour List (2020, 2021, 2022)
- **Relevant Coursework:** Honours Algorithms & Data Structures, Honours Mathematics for Machine Learning, Applied Machine Learning, Theory of Machine Learning, Artificial Intelligence, Natural Language Processing, Algorithmic Game Theory, Programming Languages and Paradigms, Operating Systems

Experience

DataAnnotation.tech

Nov 2023 - Present

Software Developer - AI Trainer

Remote

- Contributing to the development of complex AI models that perform coding tasks in languages such as Python, Java, Javascript, and SQL
- Devising creative and challenging prompts, evaluating code and producing high-quality write-ups to benchmark the performance abilities of AI models

SmartCone Technologies Inc.

Feb 2023 - Nov 2023

Software Development Engineer

Remote

- Primary developer of IoT software to collect, process and store complex environmental data from remote sensors used by companies such as Disney and United Airlines
- Engineered all aspects of the project including design, feature integration, CI/CD, unit testing, remote deployment, and communication with other hardware and software project teams
- Pioneered the software from the ground up to be modular, configurable and scalable using Python, Bash, SQLite3, Azure, Docker, Jenkins, and Git

Projects

Painting Trivia Bot | Python, Docker, BeautifulSoup, PIL, pandas

Sep 2022

- Developed a Discord bot that displays cropped sections of random paintings and progressively zooms out, awarding points to users for correctly guessing the artists
- Built a web-scraper using BeautifulSoup to assemble a database of paintings
- Implemented features including multiple game modes, multiplayer functionality, and varying difficulty levels
- Dockerized and continuously deployed via micro-VM

Perfect Practice | Python, TensorFlow, OMR, Crepe

Jan 2021

- Led a Python project to make practicing music more efficient by detecting mistakes in the user's playing
- Utilized Optical Music Recognition (OMR) in TensorFlow to convert an image of sheet music into a sequence of midi notes
- Used Python's Crepe library to convert raw audio into discrete pitches to compare with the sheet music

Blissful Browsing | Javascript, TensorFlow.js, HTML

May 2020

- Developed a Chrome Extension in Javascript that uses sentiment analysis to block hateful and offensive speech

Technical Skills

Languages: Python, Java, JavaScript, SQL, HTML, Bash, C

Technologies: Node.js, Flask, SQLite, Azure, Docker, Git, Linux, Jenkins, NumPy, pandas, matplotlib, Firebase, TensorFlow/Keras, Processing, p5.js, NLTK, \LaTeX

Concepts: Back-end development, CI/CD, IoT, object-oriented programming, operating systems, unit testing, web scraping, cloud deployment, multi-threading, functional programming, algorithms, data structures, machine learning, natural language processing, computational linguistics, computational mathematics