WERONIKA ZAK

GITHUB · LINKEDIN · PORTFOLIO · EMAIL · PHONE

< EDUCATION >

UNIVERSITY OF LOUGHBOROUGH
| BSc Computer Science and AI
2020 - present | Loughborough, UK

I earned **first-class honors** in the first and second years.
I was a member of student societies such as:

- **CodeLab**: I managed communication with Hackathon sponsors, assisted with the operation of society labs, and provided support to students learning to code.
- **Scandinavian Society**: I helped with the organization of events related to Scandinavian culture and provided support to foreign and Erasmus students during their time abroad.

< ACHIEVEMENTS >

GOOGLE SUMMER OF CODE - Contributor

I collaborated with the Open Chemistry organization to integrate new parsers into open-source library cclib.

GOOGLE SOLUTION CHALLENGE - Top 50

I led a team of three to develop an application that connects homeless shelters with those in need. We deployed the app to Google Play.

JP MORGAN HACKATHON - Finalist

I led a team of five people to develop a meal prep Flask app for visually impaired individuals.

< PROJECTS >

ANALYSIS OF INDEX FUND PERFORMANCE

I analyzed fund options on Vanguard UK brokerage website, developing a scraper to retrieve Excel files and a website for graph plotting.

AI-POWERED ROCK-PAPER-SCISSOR

I developed and trained a neural network using Tensorflow's API to detect and recognize five hand gestures. I then deployed this model in a Pygame app.

TWITTER USER SEGMENTATION ANALYSIS

I used Selenium and BeautifulSoup to scrape Twitter posts and used language patterns to create a Tensorflow model that accurately predicts signs of depression.

SCREENSHOT TO TEXT CONVERTER

I created a website in Flask for extracting text from uploaded image files using OCR models. The app also enables modification of text and saving in three different formats.

< WORK EXPERIENCE >

JP MORGAN CHASE & CO | Data Science Intern
June 2022 – June 2023 | Glasgow, UK

- I developed real-time dashboards in Splunk and Grafana to monitor the performance of our team's applications.
- I created transparent and interactive visualizations of the data stored in our databases, such as Sybase and AWS Athena.
- I designed and implemented log parsers to extract important data from convoluted application logs.
- I implemented unit tests using Pytest and Unittest frameworks and mocked the existing codebase.

INTELLIGENT VOICE | Data Engineer
April 2021 – October 2021 | remote, UK

- I gathered multilingual data to train voice recognition models to store them in AWS S3.
- I ensured the accuracy and quality of the training data for voice recognition models by verifying its cleanliness and proper formatting using PySpark and AWS tools.
- I collaborated with a team of linguists and translators to collect and validate the data.

ITM CODE | Software Engineering Intern
May 2019 - July 2019 | Kielce, Poland

- I identified, debugged, and resolved coding errors to enhance software performance.
- I collected and analysed client requirements in meetings and consultations.
- I assisted in the development of the company's website using C# and .NET framework tools.
- I applied Agile methodologies to efficiently manage project timelines and meet deadlines.

< SKILLS & TOOLS >

LANGUAGES:
- Python · C/C++ · C# · Java · SQL · Swift

FRAMEWORKS:
- Django · Flask · Express · React · Spring
- Pytest · .NET Core · Tensorflow

OTHER:
- Cloud (AWS, Azure) · Linux · Git · Docker
- Android Studio · Pytest · Machine Learning Algorithms

< CERTIFICATIONS >

AWS MACHINE LEARNING SPECIALITY

AWS SOLUTION ARCHITECT ASSOCIATE