SARA BARTHEL DE WEYDENTHAL

⚲ WARSAW, POLAND

○ DETAILS ○

Warsaw
Poland
saraannabdw@gmail.com

○ LINKS ○

LinkedIn

Cash is Class- my social project

Personal website

○ COMPUTER LANGUAGES AND ○ FRAMEWORKS

jQuery

CSS

HTML

JavaScript

Python

Bootstrap

React.JS

Swift

○ LANGUAGES ○

Polish

English

French

💼 EMPLOYMENT HISTORY

Junior Data Operations Engineer at Crystal Equation (subcontractor of Meta)
June 2022 — August 2022

I worked on the Data Operations Product & Services team on Meta's internal tools. The team functions as part of Meta's Enterprise Infrastructure and Security (EIS) Product and Analytics (EPA) team. I programmed Python analytics data pipelines to query diffs in SQL databases. I did back-end fixes in Hacklang and wrote front-end programs in ReactJS such as updating the Metastore. My work was committed to the Meta source code. I also shadowed my manager in interviews for which I underwent Meta interviewer training and learned how to evaluate technical candidates.

Programming Instructor at Kids Code Fun
January 2018 — June 2021

Over the course of two years, I taught a weekly web development course (JavaScript, HTML, and CSS) on a beginner and intermediate level to students aged 10–14 (cumulatively over 40 people). Upon its completion, each student created a web-based, interactive game and was able to use JavaScript syntax freely. I also instructed individual workshops in Python and Scratch between 2018 and 2019. This included events at Google Campus Warsaw and Meta's Przestrzeń.

🌱 EXTRA-CURRICULAR ACTIVITIES

Stock Market Investor

I used the money I earned from teaching coding to invest in a mix of growth and blue-chip stocks. I conduct detailed technical and fundamental analysis for each share. I achieved a 7.4% ROI.

Founder and Leader of a social project at Cash is Class (Polish: Kasa to Klasa)

I coordinated a team of 6 in designing a social media campaign. This involved researching topics, combining the work of team members, networking with sponsors and planning future posts. I also programmed the website and wrote articles on fundamental economics. The social project reached over 50 thousand people and my team became Finalists of the competition.

Volunteer and Coding Teacher at Girls Code Fun

As a volunteer, I designed and executed a social media campaign on gender diversity in IT and Internet safety. I assisted with coordinating workshops at the TedxWarsaw event, where students of ages (6–18) were instructed coding. At this, and other events, I also taught individual coding classes to groups of 20 students in Python, JavaScript, and HTML.

Deputy Student Body President

I organized annual Open Days for prospective students where I coordinated over 40 students and over a hundred candidates. I also gave a speech on behalf of the student body and headed Q&A sessions, working closely with the school's headmaster. I planned and managed virtual graduations involving musical performances and faculty speeches.

★ AWARDS

Best Delegate award from Model United Nations for my role in the Economic Council

I researched and led the debate on eradicating poverty in my council while arguing in the interest of my delegated country, South Africa. In spite of not having veto power, I proposed possible solutions and became a sponsor of the resolution. My work, ultimately, led me to win the Best Delegate award.

Participant Online School Stock Game organized by the Warsaw Stock Exchange

By creating a strategy to mix safe and growth stocks from the Warsaw Stock Exchange, I devised a portfolio that resulted in an 18% ROI. Ultimately, I ranked 20th in Poland (out of 4000 participants) and 3rd in my voivodeship during the stock market simulation.

Speaker at the Women In Tech Summit

At the age of 16, I gave a speech titled "Girls May The Code Be With You" at Perspektywy Women In Tech Summit, which is the largest STEM conference for women in Central Eastern Europe. In the speech, I advocated for ways to encourage more girls to pursue computer science by using my experiences as a teacher to girls-only and co-ed groups. I proposed effective mentoring examples of all genders to make the IT world more diverse.

★ PERSONAL PROJECTS

Programmed a personal website

I designed and developed a portfolio website to showcase my work with HTML, CSS and JavaScript.

Artificial Intelligence Facial Emotion Detection

I programmed a Facial Emotion Detection program, which recognizes anger, happiness, sadness and surprise. I constructed a KNN model, Logistic Regression and a Decision Tree, of which the highest accuracy was 50.4%. After constructing a convolutional neural network (CNN) I reached an accuracy of 70%. My program could help autistic people with social communication.

Stock Price Prediction Algorithm Based on AI

I first built an algorithmic trading program with the use of dual moving average crossover and the yfinance API to determine the most profitable times to invest. I then improved it by building an LSTM neural network to predict future stock prices. The highest accuracy of the AI was 70% and it successfully modeled a stock's trend.

Budgeting web-based app

I programmed a budgeting app using Bootstrap, jQuery, HTML, CSS, and JavaScript. The app consisted of a budgeting plan and table for each category; a stock view that used the yfinance API, and a stock wishlist. The app also includes a login and register view, which is backed by Google's Firebase Authentication. The rest of the app, including the budget chart, tables, and modals, is backed by Google's Firestore.