







Karol Gucwa

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PROFILE

Motivated and passionate software developer with strong foundations in **C** and **Python**. Completed **CS50x** and **CS50P** at Harvard, with hands-on experience in web development (Flask), SQL, and basic AI/ML. Looking for a junior-level role to grow my skills and contribute to impactful software development. Always learning and excited to take on new challenges.

SKILLS

Programming Languages: C | Python

Web Development: Flask | HTML | CSS

Databases: MySQL | SQLite

Machine Learning/AI: Basic models with scikit-learn

LANGUAGES

Polish — Native/Bilingual
Native

English — Fluent
IELTS 7.5 (C1 level)

INTERESTS

- Chess
- Fitness

EDUCATION

Harvard University | CS50x: Introduction to Computer Science

2025

- Mastered core concepts like algorithms, data structures, and C programming.
- Developed projects focusing on memory management, debugging, and low-level programming.

Harvard University | CS50P: Introduction to Programming with Python

2025

- Gained expertise in Python programming, including OOP, APIs, and web development using Flask.

AWARDS

Baltie international

- 12th place in Baltie international programming competition

PROJECTS

CS50P Final Project: Quiz Game (Python, JSON)

- Developed a trivia game that lets users select categories and answer randomized questions.
- Implemented score tracking with persistent storage for leaderboards (JSON and file I/O).

Spell Checker (C, Data Structures)

- Built a dictionary-based spell checker using hash tables, linked lists, and manual memory management in C.
- Optimized for case-insensitivity and word validation.