

Karol Cieřlik

531 566 406 | karolcieslik121@wp.pl | [linkedin.com/in/karol-cieslik](https://www.linkedin.com/in/karol-cieslik) | github.com/MrKarol1995

EDUCATION

Wrocław University of Science and Technology

Bachelor, Applied Mathematics VI sem.

Wrocław

Oct. 2022 – Now.

High Schoole

1 LO im. Tadeusza Kořciuszki w Legnicy.

Legnica

Sep 2019 – June 2022.

RESEARCH INTERESTS

Monte Carlo methods, Stochastic processes, Actuarial mathematics, Differential equations, Data analysis,
Risk management

EXPERIENCE

Intern Fees

UBS

May 2025 – Nov. 2025

Wrocław

- Experienced in fee control, booking, and reconciliation with strong attention to detail.
- Skilled in client account setup, policy updates, and process verification. Adaptable team player with excellent communication and project management abilities.

Bartender

Vertigo JazzClub

July 2024 – Oct. 2024

Wrocław

- I gained valuable experience working at a jazz club, where I was involved in various aspects of event management.
- My responsibilities included coordinating with musicians and staff, managing ticket sales, and ensuring an excellent experience for guests.
- I developed strong interpersonal and communication skills, worked in a fast-paced environment, and contributed to the promotion of jazz culture within the community.

Waiter

Dinette

Sep 2023 – June 2024

Wrocław

- Development of language skills in both English and Italian

Bartender

Junior CocktailBar

June 2022 – Oct 2022

Legnica

- Working in a cocktail bar allowed me to place a significant emphasis on quality and craftsmanship.
- The job developed my teamwork skills and allowed me to become familiar with various systems.
- At work, I participated in creating work schedules and developing new, exciting card of cocktails.

Bartender

SkyClub

May 2021 – Feb 2022

Legnica

- I developed the ability to contact clients and work in a large team.
- Time pressure and a large number of tasks are not a problem.

Tutoring in Mathematics

Self-employment

June 2021 – Present.

Hybrid

- Working with younger students at both the high school and university levels allowed me to develop my interpersonal skills.

PROJECTS

- Python Space shooter** | *Python, GitHub, GitLab* Jan 2023 – June 2023
- First-year semester project on the university, involving the development of a game with a graphical user interface.
- Minesweeper** | *Julia, GitHub, Python* Feb 2023 – June 2023
- Project involving the creation of a playable version of Minesweeper, along with autonomously playing bots, and comparison of their performance.
- Actuarial mathematics** | *Python, Excel* Feb. 2024 – May 2024
- A 10-week course in financial and actuarial mathematics, completed with an Allianz certification.
 - Familiarity with financial tools such as insurance, bonds, loans and operations of insurance companies, such as Allianz.
- Stochastic proces** | *Python, GitHub* March 2024 – June 2024
- Implementation of stochastic processes in finance, including random walks, Wiener process and risk processes
- Time Series Analysis** | *Python, GUS's data, GitHub* March 2024 – Dec. 2024
- During my studies, I worked extensively with time series analysis, focusing on modeling, forecasting, and statistical properties of time-dependent data. I applied methods such as ARIMA, exponential smoothing, and seasonal decomposition, using Python and statistical software to analyze real-world datasets.
- Monte Carlo simulations** | *Python, Git, GitHub* Nov 2023 – May 2025
- I conducted simulations of statistical data using Monte Carlo methods for large samples, aiming to compare empirical data with theoretical models.
- Personal Website** | *Java Script, CSS, HTML* May 2024 – Present
- I created a personal website for purposes unrelated to my studies.
 - External project for self-learning CSS, JavaScript, and HTML.

SKILLS

Programming languages: Python, Excel, Julia, C++(basics), JavaScript (basics), HTML/CSS, SQL (basics), R(basics)
Developer Tools: Git, GitHub, VS Code, Visual Studio, XCode, PyCharm, Office 365, MySQL
Libraries: Pandas, NumPy, Matplotlib, Math, SciPy, PyGame, Seaborn
Languages: Polish (native), English (advanced C1), Italian (basic A2)

OFF TOPIC

Pianist, painter, photographer, enthusiast of classical literature, and collector of splendid books, David Lynch lover