

Karol Cieřlik

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EDUCATION

Wrocław University of Science and Technology <i>Bachelor of Engineering, Applied Mathematics V sem.</i>	Wrocław Oct. 2022 – Now.
High Schoole <i>1 LO im. Tadeusza Kořciuszki w Legnicy.</i>	Legnica Sep 2019 – June 2022.

RESEARCH INTERESTS

Monte Carlo methods, Stochastic processes, Deep learning, Actuarial mathematics, Differential equations.

EXPERIENCE

Bartender <i>SkyClub</i> <ul style="list-style-type: none">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.	May 2021 – Feb 2022 Legnica
Bartender <i>Junior CocktailBar</i> <ul style="list-style-type: none">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.	June 2022 – Sep 2022 Legnica
Waiter <i>Dinette</i> Development of language skills in both English and Italian	Sep 2023 – June 2024 Wrocław
Tutoring in Mathematics <i>Self-employment</i> <ul style="list-style-type: none">Working with younger students at both the high school and university levels allowed me to develop my interpersonal skills.	June 2021 – Present. Hybrid

PROJECTS

Python Space shooter <i>Python, GitHub, GitLab</i> <ul style="list-style-type: none">First-year semester project on the university, involving the development of a game with a graphical user interface.	Jan 2023 – June 2023
Minesweeper <i>Julia, GitHub, Python</i> <ul style="list-style-type: none">Project involving the creation of a playable version of Minesweeper, along with autonomously playing bots, and comparison of their performance.	Feb 2023 – June 2023
Monte Carlo simulations <i>Python, Git, GitHub</i> <ul style="list-style-type: none">I conducted simulations of statistical data using Monte Carlo methods for large samples, aiming to compare empirical data with theoretical models.	Nov 2013 – May 2024
Actuarial mathematics <i>Python, Excel</i> <ul style="list-style-type: none">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.	Feb. 2024 – May 2024
Stochastic proces <i>Python, GitHub</i> <ul style="list-style-type: none">Implementation of stochastic processes in finance, including random walks, Wiener process and risk processes	March 20224 – June 2024
Gendet pay gap <i>Python, GUS's data, GitHub</i> <ul style="list-style-type: none">Project in applied statistics involving the visualization of statistical data and comparing them based on gender and other parameters.	March 2024 – June 2024
Personal Website <i>Java Script, CSS, HTML</i> <ul style="list-style-type: none">I created a personal website for purposes unrelated to my studies.External project for self-learning CSS, JavaScript, and HTML.	May 2024 – Present

SKILLS

Programming languages: Python, Julia, C++(basics), JavaScript, HTML/CSS, SQL (basics), R(basics)

Developer Tools: Git, GitHub, VS Code, Visual Studio, XCode, PyCharm, Office 365

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.