

# MATEUSZ GIENIECZKO

C#.NET Developer and CS Student at the University of Warsaw

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## 📁 EXPERIENCE

### Lecturer

University of Warsaw

📅 February 2022 – June 2022

📖 Designed and taught a deep-dive course on C#.NET, available at [gienieczko.com/teaching/csharp](https://gienieczko.com/teaching/csharp).

### Intern Software Engineer

Microsoft Ireland – Identity Division

📅 June 2021 – September 2021

📖 Architected and developed a solution for secure querying of on-premises data stores. Collaborated with multiple globally distributed teams to produce a detailed design document. Received excellent feedback from manager and coworkers.

### Lead Software Engineer

UView, PushThatButton

📅 August 2020 – June 2021

📖 Architected and developed microservice-based, scalable and HA solutions. Integrated multiple data sources: REST APIs, SQL and NoSQL databases under a GraphQL API. Ensured high code quality: peer reviews and static analysis integration.

### C# .NET and Database Developer

Lingaro

📅 July 2019 – June 2020

📖 Architected and developed a scalable business-critical reporting and data warehousing solution with ASP.NET Core API, AzureSQL database, Azure Blob Storage, Azure Data Factory and Azure DataBricks.

### C# .NET Entry Level Developer

KMD Poland

📅 April 2018 – September 2018

📖 Developed a web application from scratch in ASP.NET MVC. Architected and implemented a database migration tool for a large-scale distributed data processing system.

## 🏆 ACHIEVEMENTS

### Bronze medalist (2x)

XXIII and XXIV Polish Olympiad in Informatics

📅 2015/2016, 2016/2017

## 🎓 EDUCATION

### Master's degree in Computer Science

Faculty of Mathematics, Informatics and Mechanics of the University of Warsaw

📅 October 2020 – June 2022

- Thesis: `rsonpath` – blazing fast JSONPath query engine powered by SIMD. See [github.com/VOldek/rsonpath](https://github.com/VOldek/rsonpath).
- Graduated summa cum laude.

### Bachelor's degree in Computer Science

Faculty of Mathematics, Informatics and Mechanics of the University of Warsaw

📅 October 2017 – June 2020

- Thesis: Product Scanner – image reconstruction application generating fully textured 3D models of products with an Azure Kinect camera.
- Straight A's in databases, algorithms & data structures, concurrent programming, software engineering.

## 📖 THEORETICAL INTERESTS

Logic

Automata

Theory of computation

Programming language design and compilers

## 🔗 INDEPENDENT PROJECTS

### Harper

Interpreter for a hybrid functional-imperative programming language. Lazy evaluation and a novel static type system with polymorphism and explicit side-effects. Written in Haskell.

### Latte

Compiler for a Java-like programming language targeting x86\_64 architecture. Features inheritance, virtual methods, optimisations, and global register allocation. Written in Haskell.

### LeagueOfBets

Microservice application written in C#. Utilizes several asynchronous job queues in RabbitMQ and authentication/authorization flow between API endpoints based on IdentityServer4 OpenID implementation.

### Artificial Intelligence for Connect Four

Team project – a GUI and an AI for Connect Four based on minimax search algorithm using alpha-beta pruning with iterative deepening. Made in Python.