




## Bogdan Mic


**Date of birth:** 26/10/1995

**Nationality:** Romanian

### CONTACT

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 [github.com/hokedo](https://github.com/hokedo)

### WORK EXPERIENCE

**09/2023 – CURRENT**

#### Flutter Developer Fiuzer

Develop flutter app which facilitates connections between influencers and brands seeking tailored marketing campaigns.

**21/10/2019 – CURRENT** Berlin, Germany

#### Data Engineer Castle Tech GmbH

- Architected and implemented the of infrastructure to efficiently crawl and extract vehicle auctions and contact information of car dealerships, optimizing data collection processes.
- Developed and deployed services integrating machine learning models, resulting in enhanced decision-making capabilities and improved user experience across key organizational functions. Contributed significantly to cross-functional collaboration with the development team to seamlessly integrate these services into the marketplace platform, ensuring a cohesive user experience.
- Implemented robust internal data processing pipelines, streamlining data ingestion, transformation, and storage workflows to facilitate insightful analytics and reporting.
- Implemented robust security measures within projects by implementing AWS Secrets Manager for credential management, defining AWS user permissions using infrastructure as code, and developing a dedicated tool for credential management and rotation, enhancing the overall security posture of the system.
- Demonstrated creativity and technical prowess by designing and building custom Google Chrome extensions serving as automated bots for networking platforms, empowering users with enhanced productivity and networking capabilities.

**08/2018 – 2023** Mannheim, Germany

#### Software developer Cicon Software GmbH

Designed and created an web based application used for planning performance reviews for employees.  
Backend system, admin dashboard and website development for Marktfee App.

**24/11/2017 – 30/08/2018** Delaware, United States

#### Software developer Istylemyself Inc

Istylemyself is the company that created the iOS app called "Elan". The app's main goal is to recommend users what clothes to wear for a given occasion. The recommendations are created based on a machine learning algorithm. The user's wardrobe is created, with his consent, based on the orders placed on websites like Asos, Zara, H&M. I created and maintain the crawling the component of the project. Making sure that, after a user logs in in on the merchant's website, the orders get downloaded quickly is one of my main roles. My other roles are to assure that the recommendations generated by the algorithm are accurate and that the integration of the project's components is working fine (Crawling, Database, API etc).

**13/07/2015 – 31/12/2018** Cluj-Napoca, Romania

#### Software Engineer & Data Analyst Trinx Software S.R.L.

This company is a direct partner of TrustYou GmbH. TrustYou Analytics is a well known platform in the hospitality industry used mostly by hotel management to get more insight in their clients feedback. TrustYou GmbH is a Big Data company based in Munich. I was initially hired to work on the crawling department but slowly joined projects belonging to other departments.

- Creating and maintaining web crawlers
- Improve the internal data processing pipeline
- Manage and cleanse data stored in databases
- Developed internal tools
- Created tools and automated reporting software used to analyse user behavior. The goal was to predict and prevent customer churn.

**2010 – 2012**

### Freelancer

Created and hosted simple custom websites. Hosted and maintained servers for online games (Counter-Strike, Minecraft etc).

**01/01/2017 – 01/06/2017** Cluj-Napoca, Romania

### Python Application - Bachelor Thesis in Computer Science "Babes-Bolyai" University

Designed and developed the front and back end of an application which gathers data about rents in Cluj-Napoca and allows the user to query the data using a web based interface ("autoscraper" on github). Besides offering information about the rents (address, location on Google Maps, price, etc), the application could also recommend offers based on the user's points of interest inside the city. The project has a module used to generate web crawlers using a graphical interface and a machine learning algorithm used to detect the main data points while the web page is loading.

**01/01/2021 – 01/09/2021**

### Master Thesis in Computer Science "Babes-Bolyai" University

Conducted in-depth research focused on unraveling the mechanisms underlying neural networks, with a primary objective of translating neural network structures into mathematical formulas. Initially, the investigation concentrated on converting neural networks into mathematical representations, culminating in an overarching goal of converting neural networks into executable code. This research delved into fundamental principles of neural network architecture and function, ultimately contributing to the advancement of understanding in the field of artificial intelligence and computational modeling.

## EDUCATION AND TRAINING

**01/10/2019 – 01/07/2021** Cluj-Napoca, Romania

### Masters Degree Advanced Information Systems "Babes-Bolyai" University

**01/10/2014 – 30/06/2017** Cluj-Napoca, Romania

### Computer Science Bachelor "Babes-Bolyai" University

**15/09/2010 – 15/06/2014** Bistrita, Romania

### Highschool Diploma "Liviu Rebreanu" College

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Romanian

**Other language(s):**

**English**

**Listening** C1

**Reading** C1

**Writing** C1

**Spoken production** C1

**Spoken interaction** C1

**German**

**Listening** C1

**Reading** C1

**Writing** C1

**Spoken production** C1

**Spoken interaction** C1

## ADDITIONAL INFORMATION

### Publications

#### Publications

Bogdan Mic (2017), **Centralized Real Estate Search System**, presented at The Scientific Communication Session for Students, MHP BigBrain and UBB Graduation Day (event created for big companies to personally meet students)

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### Conferences and seminars

#### Conferences DevTalks (May 2016)

**Techsylvania** (June 2017)

**The Scientific Communication Session for Students** (June 2017)

**MHP BigBrain** (July 2017)

**IT Days** (November 2017)

**PyConFlorence** (April 2018)

**DevTalks** (June 2020).

### Projects

#### Other projects worth mentioning

**Python:**

**Machine learning algorithm** used to generate web crawlers used in a specific context.

**Optical Character Recognition script (OCR):** recognizes letters and numbers from a given picture and if it finds a polynomial, it tries to solve it

**Hill Cipher script:** Python algorithm made after the Hill Cipher algorithm to cipher and decipher text

**Python programming on Android:** Played with Kivy Framework

**C:**

**Arduino:** developed program that allows 2 Arduino boards to communicate through wireless transceiver modules and display the data on LCDs

**Android:**

**Android App** for sending encrypted messages (SMS). The messages could have been read and decrypted only if the receiver had the app installed. The encryption was made using the RSA cryptosystem.

### Communication and interpersonal skills

#### Communication and interpersonal skills Good explanatory skills

### Job-related skills

#### Job-related skills

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**Python 2, 3:** Luigi, Scrapy, Splash, Ipython, web.py, Flask, Django, Django Restframework, FastAPI, celery. Libraries: requests, pycurl, pyquery, boto, psycopg2, scikit, etc.

**Java 1.6, 1.8:** Maven, Spring, Apache Tomcat 7,8, JUnit, JSF, Primefaces

**Javascript:** JQuery, Angularjs, Angularjs 2, Nodejs, VueJS NuxtJ, React, Nextjs

**CSS:** Bootstrap, SCSS

**Persistence:** MySQL, PostgreSQL, HBase, MongoDB, Elasticsearch, DynamoDB, Firestore

**Data warehouse:** Snowflake

**Hadoop:** Distributed File System, MapReduce, Spark, Hive, SparkSQL, Apache Zeppelin

**Provisioning:** VirtualBox, Docker, Linux Containers

**Cloud:** AWS, Google Cloud Platform, Firebase, MS Azure

**Git Repositories:** Stash, Bitbucket, Github, Gitlab, Azure Devops

**Linux shell scripting, Windows batch programming**

**PHP**

**Issue trackers:** Jira, Trello, Pivotal

**Data visualization:** Grafana, Apache Zeppelin

**Infrastructure as code:** CDK, Serverless, Pulumi