

Sergiu Siminiuc

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PROFESSIONAL SUMMARY

Skilled CTO & Software Engineer with advanced expertise in clinical data algorithms and e-commerce analytics. Follows an MS in Informational Security and holds a BS in Computer Science and Engineering. Possesses a profound technical proficiency across a wide array of programming languages and frameworks, as well as extensive experience with database and DevOps tools. An adept collaborator on international projects, including the MAGIC initiative, combining genetics, bioengineering, and advanced microfabrication technologies. Adept at semantic modeling and data repository management for critical medical research. Proven track record in leading complex projects, synthesizing multidisciplinary expertise, and fostering innovation. Dedicated to enhancing data-driven decision-making processes and optimizing operational efficiencies through technological excellence.

TECHNICAL SKILLS

Languages : Java, Python, SQL (Postgres, MS-SQL, MySQL), JavaScript, Swift, PHP, Kotlin, JSON, Groovy, Go.

Frameworks : AKKA, React Native, SpringBoot, Node.js, Flask, Django, ExpressJS, Spring Data, Spring Cloud, JPA/Hibernate, CKAN, Kafka, Hazelcast, Redis, RabbitMQ, Solr.

DevOps and API Tools : IIS, Git, Docker, OpenShift, Kubernetes, Azure DevOps, Swagger, Postman.

Cloud and Security Tools : GCP, Hetzner, AWS, Azure Cloud, SQL Server, Linux (Configuring and Managing).

Others : ETL, Data Modeling, Agile (Scrum/Kanban), MongoDB, ClickHouse, Neo4J, Grafana, ZennoPoster, Flutter, Vapor, Fair Data Point.

PROFESSIONAL EXPERIENCE

Chief Technical Officer | *Duchenne Data Foundation*

October 2021 – Present

- Building text mining algorithms for clinical trials labeling.
- Creating and implementing a tool to FAIR-ify datasets based on medical ontologies.
- Building custom extensions for CKAN
- Developing a Knowledge Graph for PubMed articles.
- Developing a tool that sorts clinical trials by their gene mutation.

Software Engineer | *XPLN GmbH*

September 2020 – Present

- Building advanced scrapers (crawlers) for the biggest ecommerce websites & brands in Europe (*Geizhals, ASOS, CDISCOUNT*, etc..)
- Implementing captcha bypass scripts for Friendly Captcha, hCaptcha and reCAPTCHA.
- Building custom scripts and databases for specific metrics (*Grafana*).

EDUCATION

Technical University of Moldova
Hochschule Hannover
Saxion University

MS in Informational Security | Moldova
Business Administration course | Germany
BS in Computer Science and Engineering | The Netherlands

September 2023 – present
September 2019 – March 2020
September 2018 – August 2022

PROJECTS

Website(s) Crawling | MongoDB, Java, Groovy, ClickHouse, Kafka, Hazelcast

September 2020 – September 2023

- Crawling data from ecommerce websites and performing analytics.

BIND

October 2021 – June 2024

- Validated clinical assessment tool to be adopted in the EU clinics when addressing the CNS comorbidities in DMD and BMD.

MAGIC

September 2023 – Present

- The MAGIC project employs a multidisciplinary approach that combines expertise in genetics, bioengineering, and advanced preclinical translation. It leverages state-of-the-art technologies, including microfabrication, microfluidics, and human stem cell differentiation, to create precise disease models and therapeutic vectors. These vectors are designed to express therapeutic genes specifically in muscle cells, reducing the risk of immune responses.

Duchenne Data Repository | CKAN, Django, Python, Microservices, Redis, Solr, PostgreSQL

October 2021 – Present

- A unified data repository for dystrophinopathies - *Project Description, Repository's website*

RESEARCH AND PUBLICATIONS

FAIRification and semantic modelling for Duchenne and Becker Muscular Dystrophy rare diseases.

Nutritional Quality of Bread and Bakery Products: Case Study: Republic of Moldova