

# Bodnar Ioan-Ciprian

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## SUMMARY\*

Accomplished Software Engineer with 6 years of experience specializing in Spring Framework for back-end development and leveraging React and Angular for dynamic front-end interfaces. Proficient in database design, optimization, and cloud technologies, with AWS and Oracle Java certifications. Holds a Master's degree in Computer Science, showcasing a strong foundation in software engineering principles and a commitment to delivering scalable, high-quality solutions in cloud and enterprise environments.

**TECHNICAL SKILLS:** Java (8, 11, 17), Spring, Cassandra, MySQL, Docker, Angular, React, Zookeeper, SAML 2.0, OIDC, Cloud Services

## PROFESSIONAL EXPERIENCE

### Veridium

*Senior Software Engineer*

Bucharest / Romania -remote

*Nov 2022 – Present*

**Enhanced Product Evolution and Client Impact:** Contributed to the evolution of a core product, significantly improving client satisfaction and usage metrics through targeted enhancements to system security and usability. Successfully integrated SAML and OIDC protocols into the admin manager, streamlining authentication processes and bolstering security.

**Modernized Technology Stack:** Played a pivotal role in upgrading the system to Java 17 and Cassandra 5, leading the effort to remodel the data layer by removing Lucene indexing and implementing SASI (SSTable-Attached Secondary Indexing). This transition improved performance, reduced maintenance complexity, and aligned the platform with modern standards.

**Impact-Driven Contributions:** Delivered measurable improvements to the product's scalability, performance, and user experience, directly enhancing its value to clients and ensuring alignment with evolving industry best practices.

- **Enhanced** a robust Single Sign-On (SSO) system with multi-factor biometric authentication, improving security and user convenience for enterprise clients.
- **Integrated** Active Directory and Shibboleth Identity Provider (IdP) to streamline authentication and authorization processes, ensuring compliance with industry standards.
- **Developed and launched** new features and enhancements, aligning with client expectations and driving increased system adoption and usage.
- **Collaborated** with cross-functional teams to ensure seamless integration and system functionality, reducing downtime and improving user satisfaction.

### Mambu

*Software Engineer*

Iasi / Romania - remote

*Feb 2021 – Nov 2022*

- **Developed** and deployed stable functionalities for a statistical hub and self-service portal in Mambu, utilizing React with Bootstrap to enhance user experience and empower client self-service capabilities.
- **Conceptualized and implemented** fine-grained Grafana business and technical metrics leveraging Victoria Metrics, improving monitoring precision and actionable insights.
- **Led** the migration to a modern repository stack for CI/CD pipelines, adopting a "pipeline as code" approach to streamline development workflows and improve deployment efficiency.
- **Learned and applied** Infrastructure as Code principles with Terraform, successfully managing project infrastructure and achieving a scalable, cloud-based environment.
- **Collaborated** with cross-functional teams to ensure seamless integration of Java-based solutions in a cloud-native architecture, ensuring robust performance and reliability.

- **Developed** new features for pharmaceutical production systems as part of an international team, leveraging the latest technologies, including Kotlin and the Spring Framework.
- **Transitioned** to a Java, Spring, and Docker-focused technology stack, driving efficiency and maintaining robust application performance.
- **Collaborated** within Agile and Kanban methodologies, effectively managing tasks and priorities using Jira to meet project milestones and deliver high-quality solutions.
- **Contributed** to the evolution of backend systems, ensuring scalability and reliability in a highly regulated industry environment.
- **Adapted quickly** to cutting-edge technologies and methodologies, demonstrating a commitment to continuous learning and professional growth.

## EDUCATION

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### Master in Computational Linguistics (LC) at University “A.I. Cuza” Iasi

Iasi / Romania  
*Jun / 2021*

**Specialized** in Natural Language Processing (NLP) as a subdomain of Artificial Intelligence, developing systems to process and interpret human language effectively.

**Developed** expertise in Human Language Technologies, integrating software engineering principles to create practical systems for language processing applications.

**Participated** in the prestigious SemEval-2021 Competition, contributing to Task 2: Multilingual and Cross-lingual Word-in-Context Disambiguation (MCL-WiC), showcasing advanced NLP skills in a competitive setting.

**Enhanced** interdisciplinary knowledge by combining foundational computer science and philology with advanced AI methodologies, cultivating expertise in cognitive and computational linguistics.

**Earned Recognition** through participation in SemEval and relevant coursework in NLP and AI, demonstrating a commitment to continuous learning and excellence in the field.

**Applied Skills** in developing specialized and general knowledge in related interdisciplinary fields, ensuring a holistic understanding of AI and software engineering challenges.

### Bachelor's degree Computer Science at University “A.I. Cuza” Iasi

Iasi / Romania  
*Jun / 2019*

## ADDITIONAL

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**LANGUAGES:** English, Romanian

### OTHER EDUCATION:

- Oracle Certified Associate, Java SE 8 Programmer - This was issued on December 2020. Validates foundational Java programming skills and object-oriented principles.
- AWS Cloud Quest: Cloud Practitioner - This was issued on November 2024. Hands-on gamified learning for foundational AWS knowledge.
- AWS Certified Cloud Practitioner - This was issued on December 2024. Demonstrates a solid understanding of cloud concepts and AWS services.

**INTERESTS:** Kickboxing, car enthusiast, music lover