

Emanuel Nzinga Maimona

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EDUCATION

University of Pécs - Eötvös Loránd University

Bachelor of Sciences in Computer Science

Budapest, Hungary

September 2021 – July 2024

- **GPA:** 4.9/5

- **Scholarship:** Stipendium Hungaricum

Holberton school

Software Engineering

Online

September 2020 – September 2021

EXPERIENCE

Software Engineer Intern

Instructure Hungary Kft

July 2023 – Present

Budapest, Hungary

- Fixed a critical customer-facing security bug that gave admin/root access to users, affecting over 5K users, ensuring proper access control and eliminating unauthorized admin/root access
- Contributed to full-stack development and microservice architecture using Spring Boot, React, and TypeScript, resulting in a 15% improvement in system efficiency
- Ensured secure communication between microservices using OKTA machine-to-machine flow, reducing security issues by 20%
- Refactored a critical class used in 80% of the codebase, removing circular dependencies and adding unit and integration tests, increasing test coverage by 25% and aiding developer productivity
- Enhanced documentation with Swagger and UML diagrams, reducing onboarding time by 30%
- Implemented metrics collection with Datadog, providing 40% more insights into system performance
- Transitioned Jenkins test builds from in-memory DB to Dockerized MySQL containers, aligning builds by 5% with the production environment using MySQL

Algorithms and Data Structures Teacher Assistant

Eötvös Loránd University

March 2023 – Present

Budapest, Hungary

- Provided guidance to over 200+ students through consultations, improving their understanding and performance
- Implemented departmental tasks, including grading assignments and tests, offloading 30% of the professor's workload
- Led review sessions to reinforce course material, increasing average test scores by 20%.

PROJECTS

InCharge | *Spring Boot, Java, MySQL, React, AG Chart, Typescript, MUI, InstUI*

February 2024 – Present

- Developed a full-stack web application with LTI integration for Canvas LMS, enhancing student and teacher engagement
- Implemented SSO and RBAC to streamline secure access and user-specific features within Canvas
- Built a course evaluation system with integrated statistics and OAuth 2.0 authentication flow using PKCE for secure, reliable access to Canvas LMS data
- Endorsed by professors for use in the Faculty of Informatics at ELTE, demonstrating academic and practical value

Dream Music Player | *PHP, HTML, CSS, Bootstrap, JavaScript, Ajax*

May 2023 – June 2023

- Developed server-side web application enabling music playlist browsing and creation
- Implemented user authentication, playlist management, and track administration features
- Utilized responsive design for optimal user experience
- Integrated parametric search for enhanced user interaction

TECHNICAL SKILLS

Languages: Java, Python, C#, C/C++, SQL (OracleDB, MySQL), JavaScript, Typescript, HTML/CSS

Frameworks: Spring Boot, Jest, JUnit, Jersey, Mockito

Developer Tools: Git, GitHub, Docker, Jenkins, Harness, DataDog, Splunk, Sentry, Okta, AWS, VS Code, Visual Studio, IntelliJ, PostMan, Lighthouse

Libraries: React, Bootstrap, Material-UI, Inst-UI, Caffeine

Methodologies: Agile, SOLID Principles, Design Patterns, Clean Code