MARTINA BAIARDI

Computer Science and Engineering Student

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EDUCATION

M.Sc. in Engineering and Computer Science

University of Bologna

2020 – ongoing | Cesena, Italy

B.Sc. in Engineering and Computer Science

University of Bologna

2017 – 2020 | Cesena, Italy

110L/110

Thesis: Controllo e Scalabilità Automatizzati in Cluster Kubernetes

Supervisor: Vittorio Ghini

Accounting degree in Business Information Systems

Istituto Tecnico Economico "R. Serra"

2017 | Cesena, Italy

100/100

INTERESTS

Kubernetes | CI & CD | Microservices | User Experience and User Interface | Design | Photography

PROFESSIONAL SKILLS

Programming Languages

Java, Vue, Javascript, C, Kotlin, Scala, Python, PHP, C#, C++, Android

Technologies

Git, Docker, Kubernetes, Ansible

Patterns & Practices

Object Oriented Programming, Functional Programming, Agent Programming

Project Management

Scrum, Agile

EXPERIENCE

Research Scholarship for hardware system management within the StairwAI project

Laurea in Ingegneria e Scienze Informatiche

March to September 2023 | University of Bologna

Supervisor: Andrea Borghesi

Tutor for the course "Programmazione ad Oggetti"

Laurea in Ingegneria e Scienze Informatiche

Academic Year 2022/2023 | University of Bologna

Supervisor: Mirko Viroli

Tutor for the course "Sistemi Virtualizzati"

Laurea in Tecnologie dei Sistemi Informatici

Academic Year 2021/2022 | University of Bologna

Academic Year 2022/2023

Supervisor: Vittorio Ghini

Tutor for the course "Metodi Numerici"

Laurea in Ingegneria e Scienze Informatiche

Academic Year 2021/2022 | University of Bologna

Supervisor: Lucia Romani

Web Developer

Blockvision

2020 to 2022 | Cesena, Italy

Curricular Internship

University of Bologna - Cesena, Italy

March to May 2020 | Cesena, Italy

Study of a Kubernetes cluster: main aspects, tools and realization of a cluster on virtual machines

PROJECTS

Smart Waste Collection
github.com/SmartWasteCollection
smartwastecollection.github.io/documentation
April to October 2022

The aim of the project was to optimize the management of waste collection using **Digital Twins** over a simulated environment. The project was made for academic purposes for "Laboratorio dei Sistemi Software" and "Pervasive Computing" courses.

Language: Kotlin
Technologies: Digital Twins, Microservices, Azure Cloud, CI/CD

Smart Subway
2022

The objective was to create a smart system for the management and monitoring of metropolitan stations. The topic was used for the development of two projects for two different Master Degree courses: the first was "Smart City e Tecnologie Mobili" course regarding an implementation using AWS technologies, the second was "Project Management" course to carry out all Project Management Lifecycle phases.

Technologies: AWS Cloud, IoT, RFID

Bunny Survival
github.com/anitvam/pps-bunny
August to October 2021

An open-source simulator of a bunny population made for academic purposes under the course "Paradigmi di Programmazione e Sviluppo" inspired from the interactive simulator Natural Selection developed by University of Colorado.

Language: Scala

Ca' Foscari Jisho
jisho.unive.it
May to July 2021

Web application for italian-japanese translations made for academic purposes under the course "Applicazioni and Servizi Web" in collaboration with the research group EDRDG.

Technologies: Vue, Docker, Ansible, Javascript
