MARTINA BAIARDI

Research Fellow

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in linkedin.com/in/martina-baiardi

EDUCATION

M.Sc. in Engineering and Computer Science
University of Bologna
📅 2020–2023   ♀ Cesena, Italy
110L/110
Thesis: JACOP: Programming BDI Agents with Pluggable Concurrency Model
Supervisor: Giovanni Ciatto
Co-Supervisors: Andrea Omicini, Jomi F. Hübner

Curricular Internship
University of Bologna
📅 03–05/2020   ♀ Cesena, Italy
Study of a Kubernetes cluster: main aspects, tools and realization of a cluster on virtual machines

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B.Sc. in Engineering and Computer Science
University of Bologna
📅 2017–2020   ♀ Cesena, Italy
110L/110
Thesis: Kubernetes cluster autoscaling and management: a case study
Supervisor: Vittorio Ghini

Accounting degree in Business Information Systems
ITE "R. Serra"
📅 2017   ♀ Cesena, Italy
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PUBLICATIONS

M. Baiardi, S. Burattini, G. Ciatto, and D. Pianini, in "JaKtA: BDI agent-oriented programming in pure Kotlin". In: European Conference on Multi-Agent Systems. Multi-Agent Systems: 20th European Conference, EUMAS 2023, Naples, Italy, September 14–15, 2023.

RESEARCH CONTRACTS

Research Fellowship "Systems, tools, and methodologies for deploying and updating industrial software in the cloud-edge continuum"
DISI - University of Bologna
📅 07/2023   ♀ Cesena, Italy
Supervisors: Danilo Pianini

Research Scholarship for software integration and service administration for StairwAI project
DISI - University of Bologna
📅 01–07/2023   ♀ Cesena, Italy
Supervisors: Andrea Borghesi, Giovanni Ciatto

TEACHING

Tutor for the course "Object-Oriented Programming"
DISI - Laurea in Ingegneria e Scienze Informatiche University of Bologna
📅 A.Y. 2022/2023   ♀ Cesena, Italy
Supervisor: Mirko Viroli

Tutor for the course "Virtualized Systems"
DISI - Laurea in Tecnologie dei Sistemi Informatici
University of Bologna
Supervisor: **Vittorio Ghini**

📅 A.Y. 2021/2022,
A.Y. 2022/2023   📍 Cesena, Italy

Tutor for the course "Numerical Methods"
DISI - Laurea in Ingegneria e Scienze Informatiche
University of Bologna
Supervisor: **Lucia Romani**

📅 A.Y. 2021/2022   📍 Cesena, Italy

PREVIOUS WORK EXPERIENCE

Web Developer
Blockvision
Website implementation with prototype 3D graphic rendered in-browser
Keywords: Vue.js, HTML, CSS, Javascript, PrimeVue, Three.js

📅 2020–2022   📍 Cesena, Italy

Waitress
Il Localino

📅 2019–2021   📍 Gambettola, Italy

Bartender
Rockin Park

📅 Summer
2017–2019   📍 Cesena, Italy

Wardrobe Attendant
Vidia Club

📅 Winter
2016–2019   📍 Cesena, Italy

PROFESSIONAL SKILLS

Programming Languages	Kotlin, Java, Scala, Javascript, C, Bash, Python, PHP, Sql, Prolog, C#, C++
Other Languages	Markdown, YAML, LaTeX, HTML, CSS, XML, JSON
Technologies	Git, Docker, Kubernetes, Ansible, Android, Vue, Spring, Jacamo, Jason
Programming Paradigms	Object Oriented Programming, Functional Programming, Agent Oriented Programming, Logic Programming, Event Driven Programming, Imperative/Procedural Programming
Project Management	Scrum, Agile

PORTFOLIO

JaKtA
� github.com/jakta-bdi
10/2022–03/2023

Jason-like Kotlin Agents (JaKtA): a Kotlin internal DSL meant to seamlessly integrate BDI agents into a mainstream programming language, thus adding AOP to Kotlin as an additional paradigm, retaining its toolchain, libraries, and OOP/FP abstractions. The project was made for academic purposes for the "Intelligent System Engineering" course and then extended for the Master Degree Thesis.

ℹ Paper published to EUMAS 2023

Language: Kotlin
Keywords: Domain Specific Language, Gradle Multi-Project, Domain Driven Design

Smart Waste Collection

 github.com/SmartWasteCollection

 smartwastecollection.github.io/documentation

04–10/2022

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

Keywords: Digital Twins, Microservices, Azure Cloud, CI/CD, Domain Driven Design

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Smart Subway

01–02/2022

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.

Keywords: AWS Cloud, IoT, RFID

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Bunny Survival

 github.com/anitvam/pps-bunny

08–10/2021

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

Language: Scala

Keywords: Scrum

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Ca' Foscari Jisho

 jisho.unive.it

05–07/2021

Web application for italian-japanese translations made for academic purposes under the course "Applicazioni and Servizi Web" in collaboration with the research group **EDRDG** of **Ca' Foscari University** in Venice, Italy.

Keywords: Vue, Docker, Ansible, Javascript, Agile

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INTERESTS

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

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