MARTINA BAIARDI

Research Fellow

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github.com/anitvam

EDUCATION

M.Sc. in Engineering and Computer Science

2020–2023

• Cesena, Italy

University of Bologna

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

1 03-05/2020

♥ Cesena, Italy

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

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 Sys-

2017

• Cesena, Italy

ITE "R. Serra"

100/100

PUBLICATIONS

M. Baiardi, S. Burattini, G. Ciatto, and D. Pianini, in "JaKtA: BDI agent-oriented programming in pure Kotlin". In: Advances in Practical Applications of Agents, Multi-Agent Systems, and Complex Systems Simulation. The PAAMS Collection: 21th International Conference, PAAMS 2023, Guimarães, Portugal, July 12–14, 2023.

1 Paper submitted for publication

RESEARCH CONTRACTS

Research Scholarship for software integration and service administration for StairwAI project

₩ 01-07/2023

♥ Cesena, Italy

DISI - University of Bologna

Supervisors: Andrea Borghesi, Giovanni Ciatto

TEACHING

Tutor for the course "Object-Oriented Programming"

DISI - Laurea in Ingegneria e Scienze Informatiche

A.Y. 2022/2023

• Cesena, Italy

University of Bologna 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

• Work done during the studies

Waitress

Il Localino

• Work done during the studies

Bartender

Rockin Park

• Work done during the studies

Wardrobe Attendant

Vidia Club

• Work done during the studies

2020-2022

♥ Cesena, Italy

♀ Gambettola, Italy

M Summer 2017-2019

2019–2021

• Cesena, Italy

₩ Winter 2016-2019

• Cesena, Italy

PROFESSIONAL SKILLS

Kotlin, Java, Scala, Javascript, C, Bash, Python, PHP, Sql, Prolog, **Programming Languages** C#, C++

Other Languages Markdown, YAML, LATEX, HTML, CSS, XML, JSON

Git, Docker, Kubernetes, Ansible, Android, Vue, Spring, Jacamo, Ja-**Technologies**

son

Object Oriented Programming, Functional Programming, Agent Ori-**Programming Paradigms** ented 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.

• Paper submitted for publication to PAAMS 2023 conference

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

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

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 <u>Natural Selection</u> developed by University of Colorado.

Language: Scala Keywords: Scrum

reg words. Serum

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 <u>EDRDG</u> of Ca' Foscari University in Venice, Italy.

Keywords: Vue, Docker, Ansible, Javascript, Agile

INTERESTS

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