# MARTINA BAIARDI

#### Research Fellow

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github.com/anitvam

## **EDUCATION**

M.Sc. in Engineering and Computer Science **?** Cesena, Italy **2020–2023** 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

**1** 03-05/2020 ♥ Cesena, Italy University of Bologna 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** 110L/110

Thesis: Kubernetes cluster autoscaling and management: a case study

Supervisor: Vittorio Ghini

Accounting degree in Business Information Sys-

tems

ITE "R. Serra" 100/100

**2017** 

• Cesena, Italy

♥ Cesena, Italy

### RESEARCH CONTRACTS

Research Scholarship for hardware system management within the StairwAI project

DISI - University of Bologna

Supervisors: Andrea Borghesi, Giovanni Ciatto

**₩** 01-07/2023

• Cesena, Italy

### **TEACHING**

Tutor for the course "Programmazione ad Oggetti"

DISI - Laurea in Ingegneria e Scienze Informatiche

Supervisor: Mirko Viroli

**A**.Y. 2022/2023

♥ Cesena, Italy

Tutor for the course "Sistemi Virtualizzati"

DISI - Laurea in Tecnologie dei Sistemi Informatici

Supervisor: Vittorio Ghini

**A**.Y. 2021/2022, A.Y. 2022/2023

• Cesena, Italy

Tutor for the course "Metodi Numerici"

DISI - Laurea in Ingegneria e Scienze Informatiche

Supervisor: Lucia Romani

**A**.Y. 2021/2022

• Cesena, Italy

### PREVIOUS WORK EXPERIENCE

Web Developer  Blockvision  Work done during the studies	<b>2</b> 020–2022	♥ Cesena, Italy
Waitress Il Localino Work done during the studies	<b>2</b> 019–2021	<b>♥</b> Gambettola, Italy
Bartender Rockin Park Work done during the studies	<b>⊞</b> Summer 2017–2019	♥ Cesena, Italy
Wardrobe Attendant Vidia Club  Work done during the studies	₩inter 2016–2019	♥ Cesena, Italy

### PROFESSIONAL SKILLS

Programming Languages	Kotlin, Java, Scala, Javascript, C , Bash, Python, PHP, Sql, Prolog, C#, C++
Other Languages	Markdown, YAML, $L\!\!^{\!A}\!T_{\!E}\!X,$ 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

**O** github.com/jakta-bdi 10/2022-03/2023

<u>Ja</u>son-like <u>Kot</u>lin <u>Agents</u> (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

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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 <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)