

# Cristiano BICCHIERI

Software Engineer

## CONTACT

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**Portfolio:** <https://github.com/zioCristia>

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## SKILLS

- **Cloud & Infrastructure:** Azure (architecture & operations), Kubernetes (Oracle), CI/CD pipelines
  - **Development & Automation:** Java 17, Spring Boot, Maven, REST APIs, Python, Shell scripting
  - **DevOps & GitOps:** Jenkins, ArgoCD, Helm, Git (BitBucket/GitHub/GitLab)
  - **Database Management:** Oracle, Couchbase, MySQL
  - **Tools & Methodologies:** Agile Scrum, Jira, Confluence
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## PROFESSIONAL EXPERIENCE

### Cloud/DevOps Engineer | 03/2023–present

Amadeus

- Migrating a Java/C++ application for airplane route optimization from on-premises Linux servers to Azure Cloud.
- Reduced infrastructure costs by 25% by optimizing Kubernetes pod resources.
- Developed Python scripts to automate YAML configuration management, reducing duplication and accelerating deployment.
- Managed CI/CD pipelines using Jenkins, ArgoCD, and Helm charts for streamlined deployments.
- Migrated caching strategies and batch processing with Control-M jobs for improved performance.
- Worked in an international, English-speaking Agile Scrum environment using Jira and Confluence.

### Backend Software Engineer | 10/2022–03/2023

EngIT

- Developed and deployed a backend system using Java and Node.js, ensuring high performance and security.
- Created REST APIs with JWT authentication for secure communication between services.
- Automated deployment and testing processes, following DevOps best practices.

### Backend Software Engineer (internship) | 10/2022–03/2023

DPS – Digital Product Simulation

- Designed and maintained backend services using Java, Spring Boot, and Hibernate.
- Ensured seamless REST API integration with frontend applications.
- Developed unit tests and implemented TDD methodologies to ensure code reliability.

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## EDUCATION

### Politecnico di Torino | 2019–2023

Master of airspace engineer

- Thesis in: "A genetic algorithm for a task allocation problem in an urban air mobility scenario". GitHub: <https://github.com/zioCristia/task-allocation-genetic-algorithm>

### ISAE-Supméca – Institut supérieur de mécanique de Paris | 2020–2022

Master of airspace engineer

- Double degree program with Politecnico di Torino
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## PROJECTS

### Energy Saver Home Automation

<https://github.com/zioCristia/energy-saver-ha-automations>

- Created a server to automate IoT devices.
- Installed a Linux server on an Intel NUC to manage home IoT devices using Home Assistant in Docker.
- Developed IoT devices for AC control, power monitoring, temperature sensing, water heating, and irrigation.

### 3D Java Renderer

<https://github.com/zioCristia/3DJavaRenderer>

- Built a 3D Java Renderer to simulate package arrangements inside a truck for optimization.
- Enabled interactive 3D visualization with mouse rotation.

### Arduino quadcopter

<https://github.com/zioCristia/arduino-quadcopter>

- Arduino based quadcopter made, using MultiWii FC software and an home-made 3D printed frame.