



# Mohamed Boussaa, Ph.D.

## DevOps Engineer

Experienced DevOps Engineer with 6+ years of expertise in automating deployment solutions across cloud (AWS, Azure) and on-premises environments. Skilled in designing CI/CD pipelines, containerization (Docker, Kubernetes), and infrastructure-as-code (Terraform, Ansible). Proven ability to lead Agile teams and deliver scalable and secure solutions.

## Work Experience

### DevOps Engineer / Scrum Master

Activeeon, Paris, France

#### DevOps Engineer

- Automated the installation of Activeeon solutions using Docker Compose, Kubernetes (Helm), Packer, Terraform, Ansible, and Shell scripts, reducing manual configuration efforts and deployment time by 75%.
- Developed and maintained a comprehensive CI/CD pipeline for automated deployment, configuration, testing, and delivery across on-premises and cloud environments (AWS, Azure, OutScale).
- Implemented private Docker registries to securely host container images and integrated Trivy for automated vulnerability scanning and security alerts.
- Deployed ELK and Grafana for monitoring and observability.
- Set up a test management platform with Squash for functional testing.
- Provided customer support, technical documentation, demos, and training sessions.

**Main Customers/PoCs delivery/support:** CNES, Energisme, Bentley, HPE, OutScale, INRAE, Keolis, Epsilon, LuxProvide, PointClickCare, etc.

**Technologies:** Docker, Kubernetes, Helm, Ansible, Terraform, Packer, Shell/Bash, AWS, Azure, OutScale, EKS, AKS, Harbor, Portus, Jenkins, ELK, Git, Java, Squash

#### Team Leader & Scrum Master

- Managed a team of 12, ensuring adherence to Agile Kanban Development mindset.
- Organized and facilitated Agile events: daily meetings, retrospectives, roadmap planning, bug reviews, and backlog refinements.
- Oversaw the hiring process and developed on/off-boarding and training programs.
- Managed the product backlog, clarified requirements, and ensured team alignment with business goals (acting as a Proxy Product Owner)

### Research Consultant

SAP, Montreal, Canada

[Tool](#) **Nov 2017 - Nov 2018**

- Developed a static code analyzer using the Spoon library, enabling SAP developers to map SAP Cloud application logs to source code, enhancing debugging and traceability.

**Technologies:** SAP Cloud Foundry, Java, Spoon, Eclipse, Neo4j

### Research Scientist

INRIA / University of Rennes 1, Rennes, France

[Thesis](#) [Publications](#) [Slides](#) **Jan 2014 - Sep 2017**

#### Teaching Assistant

- Taught Software Engineering modules for Master's and Undergraduate students (288h).
- Supervised Master 2 students on their final annual projects (20 students/4 months).

#### Ph.D. Researcher

- Designed and implemented an approach for automatic non-functional testing and tuning of software code generators.

**Technologies:** Java, Shell/Bash, Docker, Google cAdvisor, InfluxDB, Grafana, Genetic Algorithms (Novelty Search, GA, NSGA-II), Machine Learning Algorithms (PCA, R-chart), Metamorphic testing

## Educational Background

### Ph.D. in Computer Science

INRIA / University of Rennes 1, Rennes, France

**2014 - 2017**

### Engineer's Degree in Computer Science

Higher Institute of Applied Sciences ISSAT, Sousse, Tunisia

**2010 - 2013**

### Bachelor's Degree in Computer Science

National Institute of Applied Sciences INSAT, Tunis, Tunisia

**2006 - 2010**

## Contact

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- [mohamedboussaa](https://www.linkedin.com/in/mohamedboussaa)
- [mboussaa](https://github.com/mboussaa)

## Skills

### Technical Skills

- Orchestration:** Docker, Kubernetes
- Automation:** Ansible, Terraform, Packer, Helm, Shell/Bash
- Monitoring:** ELK, Telegraf/Grafana, cAdvisor
- Config:** YAML, JSON
- CI/CD:** Jenkins, GitLab
- DB:** Postgres, InfluxDB
- VCS:** Git, Bitbucket
- Agile:** Kanban, Trello
- QA:** Squash, Selenium
- OS:** Linux, Windows
- Cloud:** AWS, Azure, OutScale
- Registry:** Harbor, Portus

### Soft Skills

- Strategic thinking
- Initiative
- Coaching and mentoring
- Work ethic

## Awards and services

- International Journals and Conferences reviewer and speaker
- Participated in European project. venues, delivering talks and live demos.
- Graduated as Top-ranked student (1st/143) from Engineering School.
- Received the "Excellence" award for the best Master's thesis.
- Awarded an Excellence-Major Scholarship for a 4-month research internship in the USA (Missouri).

## Languages and hobbies

### Languages

- English (Fluent)
- French (Fluent)
- Arabic (Native)

### Hobbies

- Basket-ball
- Angling (Line fishing)