MONCEF BOUSSELAT

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EDUCATION

Master in Networking and Cloud Computing   Sep. 2023 – Jul. 2025
University of Lorraine | Leeds Beckett University | Lulea Technical University   *Nancy, FR | Leeds, UK | Skelleftea, SE*
- Selected among 2000+ applicants for the Erasmus Mundus scholarship in "Green Networking and Cloud Computing"
- Relevant modules: Cloud Services, Intelligent Systems and Robotics, Internet of Things, Advanced Wireless Networks, System Engineering, QoS and QoE, Data Analysis

Master in Data Science and AI   Sep. 2018 – Jul. 2023
National Polytechnic School   *Algiers, Algeria*
- Ranked in the top 10% of prepatory school students nationwide, selected through a national competitive exam
- Relevant modules: Advanced Databases, Probability and Statistics, Multivariate Data Analysis, Machine & Deep Learning, NLP, Blockchain, Cloud Computing

PROFESSIONAL EXPERIENCE

Cloud Engineer – Intern   Dec. 2024 – Present
University of Lorraine   *Nancy, France*
- Built a decentralized identity system with Hyperledger Indy for secure sharing in the cloud
- Deployment on AWS with Docker (ECS) and benchmarking of system performance

Full-Stack Developer – Intern   Jan. 2023 – Jul. 2023
Schlumberger   *Algiers, Algeria*
- Developed a REST API to log 1000+ transactions/day on a Hyperledger Fabric blockchain
- Built with Flask, VueJS, Docker and deployed on AWS ECS, reducing penality costs by 75%

PROJECTS

Auto-scaling Infrastructure on AWS with Terraform   Jan. 2025
View on GitHub
- Designed JADE agents to simulate DDoS attacks on EC2, generating 20000+ instances per minute
- Implemented an auto-scalable infrastructure resilient to attacks via Terraform
- Developed VueJS dashboard integrating AWS SDK for CloudWatch metrics monitoring

Fault Tolerance in Kubernetes Orchestrated Systems   Nov. 2024
View on GitHub
- Deployed a Python app on Kubernetes cluster with an HPA
- Load-tested the system using cURL - Achieved 99.9% uptime
- Real-time resource monitoring with Prometheus and Grafana

Room Recommender Based on IoT   Nov. 2023
View on GitHub
- Deployed an app on AWS EC2 to collect IoT data (temperature, noise) and store it on MongoDB
- Developed a decision algorithm to recommend rooms based on user preferences

AWARDS & CERTIFICATIONS

Certifications: AWS Certified Solutions Architect Associate
Awards: 1st Place - Arctic Challenge (Sweden, 2024), 2nd Place - Google DevFest Hackathon 21 (Algeria, 2021)

SKILLS

Programming Languages: Python, C/C++, Java, PHP/SQL, JavaScript/TypeScript, BASH
Tools and Technologies: AWS (certified), Terraform, Docker, Kubernetes, Git, CI/CD, Monitoring (Prometheus, Grafana)
Languages: English (C2), French (C2), Arabic (Native), Swedish (Basic)