

Chalkha Achraf

Computer Engineering Student

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Profile

Final-year Software Engineering student, motivated, creative with practical experience in web, desktop, and command-line development, passionate about Java programming, DevOps practices, and modern web development, seeking a final-year internship opportunity to deepen my skills while contributing to innovative projects.

Education

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| NATIONAL SCHOOL OF APPLIED SCIENCES OF AL HOCEIMA (ENSAH) <i>Computer Engineering Degree</i> | 2022 - 2025 |
| NATIONAL SCHOOL OF APPLIED SCIENCES OF AL HOCEIMA (ENSAH) <i>Preparatory Cycle</i> | 2021 - 2023 |
| Oum Al Quora High School <i>Bachelor's Degree in Mathematical Sciences B - French Option</i> | 2020 - 2021 |

Professional Experience

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| ALTEN MAROC - Software Development Intern | July 2025 - August 2025 <i>Fez, Morocco</i> |
| <ul style="list-style-type: none">Developed an automated AI-powered ITSM platform usingDDD microservices architecture with Spring Boot, PostgreSQL, Redis caching, and Apache Kafka for event-driven communicationImplemented intelligent automated ticket routing and assignment system with NLP capabilities for automatic categorization, priority assessmentBuilt a conversational AI chatbot integrated with knowledge base using RAG for automated self-service support across multiple channelsDesigned role-based access control system supporting four user roles with JWT authentication using DDD principlesCreated analytics dashboard with predictive capabilities for automated performance monitoring, KPI tracking, and anomaly detection to optimize support team efficiencyDevOps Implementation: Containerized microservices using Docker, deployed on Kubernetes cluster with automated CI/CD pipeline via Jenkins, implemented monitoring with Prometheus/Grafana, and provisioned cloud infrastructure using Terraform | |

Projects

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| TALENT ACQUISITION MANAGEMENT SYSTEM (TAMS) <ul style="list-style-type: none">Development of a recruitment management application with Spring Boot, Spring Security JWT, Microservices, DDD, EDA (CQRS) on the backend, and React.js with Redux on the frontendEnsures secure and efficient management of talent requests with automatic job postingContainerized microservices using Docker and implemented automated CI/CD pipeline with Jenkins for seamless deployment and testing |
| AI-BASED INTELLIGENT CAREER GUIDANCE <ul style="list-style-type: none">Development of a Java application for personalized career recommendations, based on Spring Boot, MongoDB and secure authentication via JWTCreation of an interactive web platform with Angular for dynamic display of recommended paths and associated skillsDockerized application for containerized deployment and deployed on cloud infrastructure for scalable access |
| WEB PLATFORM FOR TEXT ANNOTATION <ul style="list-style-type: none">Development of a collaborative tool for text annotation and dataset management with Spring Boot, JWT, ThymeleafRole management, task management and security with intuitive interface and optimized performance |

SOCIAL MEDIA SENTIMENT ANALYSIS WITH BIG DATA

- Development of a Java sentiment analysis application based on Hadoop, Spark and NLP models
- Creation of a user interface with JavaFX for results visualization

UNISPHERE, SCHOOL MANAGEMENT WEB PLATFORM

- Development of a responsive web platform for managing administrative services at ENSAH
- Built with React.js frontend, Laravel backend API, and JavaScript for interactive features including student enrollment, grade management, and administrative workflows

Technologies and Skills

Programming Languages: Java, PHP, JavaScript, Python, C++, C#

Web Technologies: HTML5, CSS3, Tailwind CSS, RESTful APIs, JSON, GraphQL

Frameworks & Libraries: Angular, Laravel, React.js, Next.js, TypeScript, Express.js, Spring Boot, Spring Security, Spring Data JPA, Spring Cloud

Databases: MySQL, PostgreSQL, MongoDB, Redis, Oracle

Java Ecosystem: Java EE, Servlet API, JSP, Hibernate, Maven/Gradle, JPA, Microservices, Spring MVC

DevOps & Cloud: Git, GitHub, GitLab, Docker, Kubernetes, JUnit, Jenkins, CI/CD, Linux, AWS, Terraform, Prometheus, Grafana

Architecture & Design: Microservices, DDD, CQRS, Event-Driven Architecture, Design Patterns

Message Brokers & Tools: Apache Kafka, RabbitMQ, Postman, SonarQube, JIRA

Certifications

ORACLE CERTIFIED ASSOCIATE, JAVA SE 8 PROGRAMMER - Oracle

ORACLE CLOUD INFRASTRUCTURE FOUNDATIONS ASSOCIATE CERTIFICATE - Oracle

Extracurricular Activities

President – ENSAH CHESS CLUB: Organization of the first regional chess tournament FARAS, team coordination and effective communication. Development of leadership and event management skills.