

NIDHAL DALHOUMI

Software Engineer | Full-Stack Development

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PROFESSIONAL SUMMARY

Driven Junior Full-Stack Software Engineer with hands-on experience building web applications using Angular, Django, and Spring Boot, backed by strong DevOps and cloud foundations in Docker, Linux, and AWS. Experienced in owning end-to-end features, from REST API design to AI integrations. Strong English communication, analytical mindset, and commitment to continuous learning, code quality, and collaborative environments.

EXPERIENCE

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| <b>Medico International Services, Software Engineer (End-of-Studies Project)</b><br>- <b>Full-Stack Development:</b> Designed and developed a digital healthcare platform using <b>Angular</b> and <b>Django REST Framework</b> , implementing JWT authentication, relational data models in <b>PostgreSQL</b> , and core scheduling and treatment workflows.<br>- <b>Real-Time &amp; Cloud Integration:</b> Implemented real-time notifications and messaging using <b>Django Channels, WebSockets, and Redis</b> , integrating <b>AWS S3</b> for media storage and full-stack data flows.<br>- <b>AI &amp; Reliability:</b> Integrated an <b>AI-powered image analysis feature using YOLO</b> , performing systematic testing, debugging, and API validation to improve application reliability and data consistency. | 2025 – 2025<br>Tunis,Tunisia |
| <b>IC CANADA, Software Engineering Intern (Remote)</b><br>- <b>ERP Platform Development:</b> Developed frontend components in <b>Angular</b> and backend REST APIs in <b>Django</b> , integrating relational database functionality using <b>SQL</b> for an enterprise BI and ERP platform.<br>- <b>Data Integration &amp; APIs:</b> Worked on <b>business data flows, API development, and reporting functionality</b> , maintaining consistency across application and database layers.<br>- <b>Agile Collaboration &amp; Quality:</b> Collaborated with the team in <b>standups and planning sessions</b> , analyzing requirements, performing root-cause debugging, and implementing bug fixes.                                                                                                                     | 2024 – 2024                  |

TECHNICAL SKILLS

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| <b>Languages &amp; Frameworks:</b><br>TypeScript, JavaScript, Python, Java, C/C++, Angular, Django, Spring Boot, REST APIs, WebSockets, OOP | <b>Databases &amp; Data Systems:</b><br>PostgreSQL, MySQL, SQL, Redis, Data Integration                                                                                             |
| <b>DevOps &amp; Cloud Systems:</b><br>Linux (Ubuntu), Bash, Git, GitHub Actions, Docker, Jenkins, CI/CD, AWS S3                             | <b>AI, Testing &amp; Engineering Tools:</b><br>Machine Learning, Computer Vision (YOLO), Postman, Swagger/OpenAPI, SonarQube, Prometheus, Grafana, Debugging & Troubleshooting, UML |

EDUCATION

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|-----------------------------------------------------------|-------------|
| <b>Software Engineering Diploma, ESPRIT</b>               | 2022 – 2025 |
| <b>Physics &amp; Chemistry Preparatory Studies, IPEIT</b> | 2019 – 2022 |

LANGUAGES

English: Fluent C2 | French: B2 | Spanish: Basic | Arabic: Native

PROJECTS

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| <b>Colocation &amp; Carpooling Platform   Spring Boot, Angular, REST APIs</b><br>- <b>Full-Stack Development:</b> Developed a carpooling and colocation platform using <b>Spring Boot and Angular</b> .<br>- <b>Business Logic:</b> Implemented user management, matching, and reservation workflows.                                                                        |             |
| <b>DevOps &amp; QA Automation Pipeline   Jenkins, Docker, GitHub , SonarQube, Prometheus, Grafana</b><br>- <b>CI/CD &amp; Quality:</b> Built pipelines with <b>Jenkins and GitHub Actions</b> , integrating testing and code quality analysis with <b>SonarQube and Postman</b> .<br>- <b>Monitoring:</b> Implemented system monitoring with <b>Prometheus and Grafana</b> . | 2025 – 2025 |

CLUB LEADERSHIP EXPERIENCE

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| <b>Chairman — IPEIT Club (2021)</b><br>- Led student initiatives and organized <b>“Road to 5.0,”</b> an AI and Industry 5.0 event involving planning, team coordination, and event delivery.                                                                                                                                                                 |  |
| <b>Chairman — DeepFlow Club, ESPRIT (2023–2024)</b><br>- Led an <b>AI-focused student organization</b> , coordinating technical initiatives and machine learning workshops .<br>- Organized the <b>“AI for All”</b> program and <b>“AI HackFlow 2.0”</b> at the City of Sciences Tunis, coordinating workshops, speakers, participants, and event logistics. |  |