

# - A b d e l l a h N a s s i m M E R I D J A -

## Computer Systems Engineer

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- ▶ Looking for Software Engineer, AI Engineering or Blockchain Engineering roles
- ▶ I have 3 years of professional experience and an additional 4 years of experience as a freelancer.
- ▶ I have obtained the “auto-entrepreneur” status and card and can work on contracts legally.

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## PROFESSIONAL EXPERIENCE

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**Azybia, Canada (Remote) • Full-Stack Engineer**

07/2024 - Present

- ▶ Implementation of a property rental Software as a Service.
- ▶ Implementation of the web application front-end using Next.js 14
- ▶ Implementation of the Backend services using Nest.js
- ▶ Integrated Features: Search Map, Rental Unit Virtual Tours 360, Visits, Boosting, Tenant Screening, Payment, Lease Signing and more.
- ▶ Performed Unit and E2E testing with automated tests as well as 100% code coverage.
- ▶ Applied Multiple Optimizations: Spatial Databases and Indexes, Caching, Distributed Locks.
- ▶ Deployment to Digital Ocean for staging and production as well as Vercel.
- ▶ Production site : <https://www.azybia.com>

**Rahi-Hakma, Algiers (Remote) • Project Manager & Full-Stack Engineer**

01/2024 – 07/2024

- ▶ Conducted project management and product development processes to plan and implement the startup's web applications and mobile applications.
- ▶ Designed and implemented the startup's web applications and mobile applications using modern technologies including: Next.js, Nest.js.
- ▶ Managed application's post-development processes such as deployment to production on private VPS.
- ▶ Production site: <https://entreprise.rahihakma.dz>

**Code 213, Algiers (Part-Time) • Instructor**

10/2022 - Present

- ▶ Instructing and coaching students in Full-Stack web development using MERN Stack: HTML, CSS, JS, Front-end with React and Backend with Node.js and Express and MongoDB.
- ▶ Instructing and coaching students in a Python Programming bootcamp.

**Edraak Technologies, Algiers • Senior Software Engineer**

09/2023 - 12/2023

- ▶ Implemented the company's ERP using Odoo with custom modules development.
- ▶ Designed, implemented, and deployed serverless backend services to AWS Lambda, DynamoDB and Amplify.
- ▶ Designed and implemented the company's web products using Vue.js and Nuxt.js for multiple clients.
- ▶ Conducting Code Reviews and PR management for the team.
- ▶ Documenting code and creating documentation for other engineers in the team.

**Naseej, Saudi Arabia (Remote) • Software Engineer**

01/2023 - 08/2023

- ▶ Designed, implemented and tested the Student Admission Portal product of the company for university clients, using React.js and Material UI Library.
- ▶ Designed, implemented, and tested the Student Engagement Platform (SEP) mobile application product for university clients, using Expo React Native and Tamagui.
- ▶ Designed, implemented, and tested backend services for the SEP product using the Frappe Python framework.
- ▶ Wrote documentation about the implemented features for other engineers on the team.

**Namla, Algiers (Remote) • System Engineer**

09/2022 - 12/2022

- ▶ Designed, implemented, and tested a High-availability Edge Controller for the Namla Platform, using Golang and associated networking and gRPC libraries.
- ▶ Implemented a few systems services using Golang and Rust.
- ▶ Wrote documentation on Confluence for other engineers on the team.

**La Rochelle University L3I Laboratory, France • Research & Development Intern**

09/2021 - 09/2022

- ▶ Graduation Project about Autonomous Networks and Intent-based Networking including Cloud-Native, NFV, SDN, Software Engineering and 5G/6G.
- ▶ Designed, implemented and tested a novel cloud-native software architecture for our autonomous system solution.
- ▶ Integration of Intelligence techniques: DRL and Metaheuristics for Intent Assurance.
- ▶ Technologies: React, Flask (Python), RDF, TensorFlow, Gin (Golang), Microservices using docker and Kubernetes, Free5GC.
- ▶ Graduated with Honors.
- ▶ Published a research article about the findings of our project. DOI: 10.1109/MCOM.003.2300367

**CodeLabsAcademy**, Germany (Remote) • Full-Stack Developer & Content-Creator 07/2021 - 01/2022

- ▶ Ensured the development of the Company's Website and E-Learning Platform.
- ▶ Team Leading the Front-end team and Quality Assurance.
- ▶ Conducted Integration tasks with the Back-end team.
- ▶ Technologies: NuxtJS, VueJS, JavaScript/TypeScript, ReactJS, Redux, Node/Express, MongoDB.
- ▶ Created the content for the Web Development bootcamp of the company.

**SiriusNET**, Algiers • Mobile Engineer Flutter 10/2020 - 06/2021

- ▶ Design and production of a mobile application for food ordering and delivery.
- ▶ Implementation with Flutter and BloC pattern.
- ▶ Integration with a backend written in PHP.
- ▶ Deployment on the App Store for the IOS platform.

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## EDUCATION

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**Computer System's Engineer Degree** • Higher School of Computer Science, Algiers

Graduation Year (2022)

- ▶ From the top 8% of students of my promotion.
- ▶ Specialized in Computer Systems.
- ▶ Graduation project: Intent-driven Autonomous System for Integrated 3C Management and Orchestration in Next Generation Cloud-Native Digital Infrastructures.
- ▶ Graduated with **Honors: 16.58/20**

**Computer Science Master's Degree** • Higher School of Computer Science, Algiers

Graduation Year (2022)

- ▶ Graduation thesis: Intelligent Orchestration in Next Generation Networks.
- ▶ Graduated with **Honors: 16.24/20**

**Baccalauréat** • Mohammed Hadjress High School, Algiers

Graduation Year (2017)

- ▶ Mathematics Branch, Graduated with **Honors: 17.03/20**

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## CERTIFICATIONS

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- ▶ Machine Learning Specialization by DeepLearning.AI.
- ▶ Deep Learning Specialization by DeepLearning.AI.
- ▶ BlockchainExpert by AlgoExpert.io.
- ▶ Software Design and Architecture by Coursera.
- ▶ Software Product Management by Coursera.

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## QUALIFICATIONS (SKILLS)

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**Programming Languages** • HTML, CSS, JavaScript, TypeScript, Golang, Solidity, Rust, SQL, Python, Java, Dart, C, C#, C++.

**Frontend Development** • React.js, Vue.js, Next.js, Gatsby.js, Nuxt.js, TailwindCSS, MaterialUI, AntDesign, NativeBase, Tamagui, Vuetify, Redux, ReduxToolkit, Chart.js, D3.js, Three.js, Axios, React Query, SSR, Vite, Webpack, SocketIO, Apollo GraphQL, Ethers.js, Web3.js.

**Mobile Development** • React Native, Expo, Flutter.

**Backend Development** • Node.js, Express.js, Fastify, Nest.js, SocketIO, Django, Flask, Gin, Firebase, Odoo Framework, Swagger, GraphQL Apollo, TypeORM, Sequalize, Mongoose, Prisma, Jest & Mocha (Testing), Hardhat, TruffleSuite, Ethers.js, Web3.js, Nginx.

**Databases & Storage** • MySQL, PostgreSQL, MongoDB, DynamoDB, Firestore, FaunaDB, Redis, PostGIS, S3, GCS, RDS, Aurora, DynamoDB.

**Artificial Intelligence Development & Data Science** • Numpy, Pandas, Matplotlib, Seaborn, TensorFlow, Keras API, Pytorch.

**DevOps** • CI/CD, Linux, Bash, Docker, Kubernetes.

**System Design & Architecture** • Design Patterns, Clean Code, Monoliths, Microservices, Scalable Architectures.

**Cloud Computing** • AWS, Azure, GCP.

**Others** • Git, GitHub, Gitlab, Jira, Azure DevOps, Trello, ClickUp, Office, Latex.

**Soft Skills** • Good Communication, Risk Management, Time Management, Team Player, Goal-oriented, Research-driven.

**Languages** • Arabic (Native), French (TCF C1), English (Proficient)