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

Computer Systems Engineer

Bordj El Kiffan 16031, Algiers, Algeria • +213 540 99 28 58 • abdallah.nassim.meridja@gmail.com •Linkedin • https://abdallahnassim.dev

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- ► Looking for Software Engineer, AI Engineering or Blockchain Engineering roles
- ► I have 4 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.

PROFESSIONAL EXPERIENCE

Azybia, Canada (Remote) • Senior Full-Stack Engineer   07/2024 – 03/2025

- ► 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.

Rahi-Hakma, Algiers (Remote) • Project Manager & Senior 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.

EDUCATION

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**

CERTIFICATIONS

- ► 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.

QUALIFICATIONS (SKILLS)

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, LLMs, Agentic AI.

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)

HIGHLIGHT PROJECTS

AMANOS • An Intent-Driven Autunomous Management and Orchestration System for Next Generation Networks 5G/6G

ADD • A Prototype ERC-20 Token for a Central Bank Managed Algerian Digital Dinar.

Zakatkom • A Decentralized Web3 Application for Zakat enforcement.

HouseLoc • A Web3 Application for Smart Rentals