Curriculum Vitae

Chalabi Ayoub

Mechatronics Engineer | Software Engineer
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Personal Information

Date of Birth: 14/04/2004
Nationality: Algerian
Marital Status: Single

Professional Summary

A dynamic **Mechatronics Engineer** and **Software Engineer** skilled in combining mechanical, electronic, and software systems to create innovative solutions. Proficient in modern web development, embedded systems, and hardware-software integration. Experienced in using tools like Arduino and Raspberry Pi for electronic and mechanical prototypes. Passionate about applying technology to solve real-world problems efficiently and creatively.

Education

University Of The People
Bachelor's degree in Computer Science (Year 1)
Remote, USA

Higher National School of Advanced Technologies
Mechatronics Engineering (Second Cycle, Year 1)
Algiers, Algeria

Higher National School of Renewable Energies, Environment and Sustainable Development
Engineering foundation (First Cycle, Year 1 - 2) completed ✓
Batna, Algeria

Work Experience

Chief Technology Officer (CTO)
Learnrithm AI | 2024 – Present

- Directed the development of AI-powered platforms for education, As AI Teacher and AI Quiz.
- Led a cross-functional team of developers & designers to execute product vision and strategy.
- Implemented a partner referral program and integrated payment gateways like Flutterwave and Paystack.
- Managed and streamlined platform navigation with centralized subscription data and user-focused design improvements.

Full-stack Developer
Pear Softwares | January 2023 – September 2023

- Introduced innovative learning methodologies by integrating AI into software solutions.
- Led small teams in the development of various features, ensuring the efficient use of resources and timely delivery.

Front-end Developer
SkillArea (Remote, Egypt) | Aug 2024 – Present

- Leading front-end development for a website designed to manage and organize learning content for SkillArea's educational platform.
- Collaborating with cross-functional teams.

Co-founder
Engineering Solve Problem (ESP) Club | Apr 2023 – Oct 2024

- Co-led the establishment of a scientific club at the Higher National School of Renewable Energies, collaborate with team of engineers and students.
- Directed initiatives in electronics, robotics, and software engineering.

Member
Google Developer Group (GDG) Batna | Jan 2024 – Oct 2024

- Worked closely with other members to achieve shared goals.

Front-end Developer
AINEC Club, Batna | Sep 2022 – Jan 2023

- Provided guidance on design and implementation, ensuring high-quality website development.

Technical Skills

Software Engineering

- **Programming Languages: JavaScript, TypeScript, Python, C++**

- **Frontend Technologies: React.js, Next.js, Tailwind CSS**

- **Backend Technologies: Node.js, Prisma, MongoDB**
- **Other Tools: Git, Cloudinary, Framer Motion, Edge Store**

Mechatronics Engineering

- **Microcontrollers & Boards: Arduino, Raspberry Pi**
- **Sensors & Actuators: Proficient in integrating ultrasonic, IR, temperature sensors.**
- **CAD Tools: SolidWorks, AutoCAD for 3D mechanical design**

Key Projects

Software Engineering:

✓ **SkillArea Association**
Created a non-profit educational platform for the SkillArea Association, providing free technology education to Arabic-speaking individuals. Emphasized accessibility and inclusivity in the design.
Technologies: **Next.js, TypeScript, React, Tailwind CSS, API Integration**
View Project: skillsarealearninghomepage.vercel.app

✓ **Affiliate Portal**
Developed an advanced affiliate management system for seamless integration with AI Teacher and AI Quiz. The platform enables affiliates to track referrals, manage earnings, and process payments.
Technologies: **Next.js, TypeScript, API, Prisma, MongoDB**
View Project: partner.learnrithm.com

✓ **AI Teacher**
Built a dynamic SaaS platform offering personalized AI-powered teaching solutions. Features include real-time data processing, responsive design, and interactive user experiences.
Technologies: **Mongoose, ReactJS, Tailwind CSS, JavaScript, ExpressJS**
View Project: aiteacher.learnrithm.com

✓ **AI Quiz**
Designed and implemented a SaaS platform for interactive learning, featuring scalable quiz-generation tools and a responsive interface.
Technologies: **Prisma, Next.js, Tailwind CSS, TypeScript, REST API**
View Project: quiz.learnrithm.com

✓ **E-commerce MMRD**
Created a minimalist e-commerce platform optimized for user experience, responsiveness, and fast load times.
Technologies: **React, Next.js, Tailwind CSS, TypeScript**
View Project: iayvobecomercewebsiteproject.vercel.app

✓ **Car Rental Agency**

Built a fully animated responsive. car rental website with smooth navigation, modern UI.
Technologies: **React, TypeScript, Next.js, Tailwind CSS**
[View Project](): **carrentalagencysite.vercel.app**

✓ **Gym Site**

Developed a gym showcase web application, enabling users to explore fitness programs with dynamic and animated features. Fully responsive.
Technologies: **Re gymatemain.vercel.appact, Next.js, Tailwind CSS, TypeScript**
[View Project]():

✓ **Crypto Wallet**

Designed a live cryptocurrency tracking platform with real-time pricing, rich animations.
Technologies: **React, Next.js, Tailwind CSS, TypeScript, API Integration**
[View Project](): **cryptositeproject.vercel.app**

Mechatronics Engineering

✓ **Automated Car with Arduino**

Designed and built an automated car using Arduino, capable of navigating obstacles with ultrasonic sensors. Programmed control logic for motor speed and direction, creating a functional prototype for robotics applications.
Technologies: **Arduino, Ultrasonic Sensors, Servo Motors, C++ Programming**

Certifications & Achievements

- **Udemy: Full Bootcamp Web Development**

- **Udemy: Web Design Course | Mar 2024**

- **Google: Prompt Engineering | Aug 2024 - Mar 2024**

- **EF SET: 54/100, B2 English | Aug 2024**

- **Certification in Ethical Hacking in Web | Aug 2024**

- **A2SV: Quarterfinalist Achievement | Jul 2024**

Languages

- **Arabic:** Native

- **English, French, German:** Fluent

Hobbies and Interests

- Reading biographies and books on time management.

- Developing innovative learning tools using modern technologies.