

# Curriculum Vitae

**Chalabi Ayoub**

**Mechatronics & Software Engineer**

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## Personal Information

**Date of Birth:** 14/04/2004

**Nationality:** Algerian

**Marital Status:** Single

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## Profile:

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.

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## Education

**University Of The People**

**Bachelor's degree in Computer Science (1<sup>st</sup> year)**

**Remote, USA**

**Higher National School of Advanced**

**Technologies *Mechatronics Engineering* (3<sup>rd</sup> year) Algiers, Algeria**

**Higher National School of Renewable Energies, Environment and Sustainable Development *Engineering foundation* (2022-2024 2 years) completed ✓**

## Work Experience

### Front-end Developer

*Skills Area (Remote, Egypt) | Aug 2024 – Present*

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

### 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.

## Internships

### Back-end Developer

*ATM (Algerian Tech Market) (Remote, Algiers) | Aug 2024 – Present*

- Member in the intern team for developing solution for the backend its applications.

## Extra-Curricular Activities

### 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, Vue.js
- **Backend Technologies:** Node.js, Express.js, Django.py
- **Databases:** SQLite, Cockroach, MongoDB, PostgreSQL, Prisma, Drizzle, Mongoose.
- **Other Tools:** Git, Cloudinary, Linux, Algorithms

### Mechatronics Engineering

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

### Software Engineering

#### ✓ Skills Area Association Website:

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

**[View Project:](https://skillsarealearninghomepage.vercel.app)** [skillsarealearninghomepage.vercel.app](https://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, Synchronisation

**[View Project:](https://partner.learnrithm.com)** [partner.learnrithm.com](https://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, Synchronisation

**[View Project:](https://aiteacher.learnrithm.com)** [aiteacher.learnrithm.com](https://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, Synchronisation

[View Project](https://quiz.learnrithm.com): [quiz.learnrithm.com](https://quiz.learnrithm.com)

### ✓ E-commerce MMRD

Created a minimalist e-commerce platform optimized for user experience, responsiveness, and fast load times.

*Technologies:* ReactJS, ExpressJS, Tailwind CSS, TypeScript, NodeJS

[View Project](https://iayvobecomercewebsiteproject.vercel.app): [iayvobecomercewebsiteproject.vercel.app](https://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](https://carrentalagency.vercel.app): [carrentalagency.vercel.app](https://carrentalagency.vercel.app)

### ✓ Gym Site

Developed a gym showcase web application, enabling users to explore fitness programs with dynamic and animated features. Fully responsive.

*Technologies:* React, Next.js, Tailwind CSS, TypeScript

[View Project](https://gymatemain.vercel.app): [gymatemain.vercel.app](https://gymatemain.vercel.app)

### ✓ 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](https://cryptositeproject.vercel.app): [cryptositeproject.vercel.app](https://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.

*Tools:* Arduino, Ultrasonic Sensors, Servo Motors, C++ Programming

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## Certifications & Achievements

- **Udemy: Exclusive Diploma in Python & Django Framework | Jun 2024 - Dec 2024**
  - **Udemy: Public Speaking Course | Nov 2024**
  - **Udemy: Full Bootcamp Web Development | Jan 2022 - Mar 2024**
  - **Udemy: Web Design Course | Dec 2023 - 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**
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## Languages

- **Arabic, English, French, German**

## Hobbies and Interests

- **Reading biographies and books on time management.**
- **Practise Sports: GYM or Swim.**
- **Developing innovative learning tools using modern technologies.**