

# ALI BENKARROUCH

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[linkedin.com/in/alibenkarrouch](https://www.linkedin.com/in/alibenkarrouch)

Website portfolio: [www.aliben.me](http://www.aliben.me)

GitHub: [github.com/ben4ali](https://github.com/ben4ali)

French, English

## FORMATION

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Bachelor's in software engineering Since 2025  
École de Technologie Supérieure (ÉTS), Montréal

DEC in Computer Science, specializing in web and mobile application development 2025  
Cégep de Rosemont, Montréal

## SKILLS

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### Computer science:

**Programming:** Python, Java, C#, JavaScript, TypeScript, HTML, CSS, SQL, PHP, Kotlin, Lua

**Frameworks & librairies:** React, Angular, Next.js, Express.js, Spring boot, Flask, .NET Core, Electron, Vue, Tailwind CSS, Bootstrap, JQuery, JavaFX, Swing, JavaEE

**Database and Authentication:** MySQL, PostgreSQL, MongoDB, SQLite, Firebase, Auth0

**DevOps and tools:** Git, AWS, Azure, Google Cloud, Unity, JWT, Android Studio, Suite Office, Postman

### Technical:

**Software development:** Full-stack architecture, secure REST API design, authentication system integration, and relational and NoSQL database management.

**Methodologies:** Agile/Scrum, version control with Git, collaboration via GitHub/GitLab

**Others:** UI/UX with Figma, deployment on cloud (AWS, Azure, GCP)

## PROFESSIONAL EXPERIENCE

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Full-Stack Developer (Full-time Contract) 2025

**I3 mobile application and software design firm, Montreal (Remote)**

- Design and develop modern, high-performance websites for various clients..
- Create automation tools integrating artificial intelligence to optimize internal processes
- Deploy and maintain solutions on AWS and Google Cloud Platform

**Achievement:** Implemented an AI-based automation system for blog generation (≈2 hours saved per article, or up to 20 hours per month) and for sending mass emails, eliminating the need for external tools such as Brevo and reducing operational costs

Full-Stack Developer (Internship) 2025

**I3 mobile application and software design firm, Montreal (Remote)**

- Participate in the development of web and mobile applications (frontend and backend).
- Collaborate with designers and developers to ensure project consistency.
- Design, program, test, and debug new features.
- Contribute to the continuous improvement and performance of ongoing projects.

Front-End Developer (Intern) 2024

**Loriginal, Montréal**

- Design and develop most of the website's front-end interfaces.
- Optimize web pages to improve SEO and increase organic traffic.
- Mentor and train new interns within the front-end team.

**Achievement:** Developed a bot to automatically retrieve artist profiles, which contributed to a significant increase in the number of active artists on the platform.

## PROJECTS

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**Spellmotion**, GitHub link (Preview): [github.com/ben4ali/Spellmotion-unity](https://github.com/ben4ali/Spellmotion-unity) 2025  
Interactive game where players use hand gestures detected by the camera to cast spells and interact with the game.

- Develop an interactive game based on gesture recognition with OpenCV and Mediapipe
- Implement real-time gameplay logic in Unity with C#
- Experiment with computer vision applied to the user experience

**ProjetR**, GitHub link (Preview): [github.com/ben4ali/ProjetR-Client](https://github.com/ben4ali/ProjetR-Client) 2025  
A collaborative web platform inspired by YouTube, allowing students at Rosemont CEGEP to share and present their computer science projects.

- Design a full-stack web application with React/TypeScript and Express.js/PostgreSQL
- Develop a modern and responsive interface with Tailwind CSS and Vite
- Collaborate as a team on user management and the integration of key features

**EasyStay**, GitHub link (Preview): [github.com/ben4ali/Easystay](https://github.com/ben4ali/Easystay) 2024  
Mobile application for booking stays, connected to a secure backend.

- Develop a mobile booking application in Kotlin (Android Studio)
- Design and deploy a backend in Spring Boot and MySQL
- Ensure communication between mobile and server via secure REST APIs

**ArtSync**, GitHub link (Preview): [github.com/Jxdddiss/ArtSync](https://github.com/Jxdddiss/ArtSync) 2024  
Real-time collaborative platform with audio/video sharing and user management.

- Build a real-time collaborative platform with Angular and Spring Boot
- Integrate audio/video communication via WebRTC
- Design the database and user authentication with MySQL

## WORK EXPERIENCE

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**PROGRAMMING TUTOR** 2024  
**Cégep de Rosemont, Montréal**

- Provide individualized academic support to Cégep de Rosemont students for computer science courses related to web and mobile application development
- Explain complex technical concepts in a clear manner adapted to each student's level of understanding.

## ADDITIONAL CERTIFICATIONS AND TRAINING

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Amazon Junior Software Developer Professional Certificate Amazon - 2025  
Skills in backend/frontend software development, cloud and professional tools

Google Cybersecurity Professional Certificate Google - 2023  
Concepts in cybersecurity, threat analysis, incident management