

# Maxime LEGER

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## Skills

- Java | C | Python | Matlab | Bootstrap | JavaScript | TypeScript | Node.js | Express.js | jQuery | MongoDB | Mongoose | Git
- Visual Studio Code | Spyder | Apache | Netbeans | IntelliJ IDEA | Processing | Code::Blocks | Excel & VBA | LaTeX | Notion
- AI | Data Science | Mobile App | Web Development | Frontend | Backend | Full-Stack | English (TOEFL ITP 590), French

## Experience

### Software Engineer & Team leader

#### JDM Expert

*Ecully, France* **09/2022 - 11/2022**

- Led the design and development of the mobile app on iOS and Android using **React Native** interfaced with a CRM in **PHP** through a RESTful API connecting 120 companies through distributed systems, easing the technical and commercial communication throughout the network.
- Designed and implemented a scalable interface enabling users to digitize construction and component sheets via QR code, as well as meaningful and effective features like placing orders and quote requests.
- Created an access authorisation manager to orchestrate users' authorisations according to their position in the company.
- Managed a team of 5 using **Agile** methods to lead the project with the **Scrum** framework in a cooperative environment.

### Software Development Engineer

#### Compagnie Nationale du Rhône

*Lyon, France* **04/2022 - 08/2022**

- Elaborated a requirement statement to assess the needs and features on the creation of the database, and converging to an optimal solution with a useful design and meaningful fonctionnalites suited for the service made up of 5 teams.
- Computed user friendly charts as a data visualization solution for the database composed of 2000 entries and 40 attributes to retrieve essential information about the intervention area of the team and to detect potential non supported equipments.
- Developed a standalone CRUD Human-Machine Interface interacting with the database under **Excel & VBA** for the teams.
- Transformed and exported 2 plannings of different teams throughout the year into database entries: data cleansing, code reviews, adaptative code, best practice for future developments
- Designed a skill matrix to have a global view of the skillset of a team according to the needs to fill.

### Upkeep service & Project manager

#### ECLAIR (Computer Science Association)

*Ecully, France* **02/2021 - 02/2022**

- Created a website under **Bootstrap** and **Node.js** used day-to-day by 1200 persons with 12 modules: profil creation, global calendar of events, rooms booking, products lending and printing orders.
- Handled students daily issues : software installation, hardware replacement, questions on computer science environments...
- Administered an internal network of an entire building floor composed of 5 servers under **Linux** with **VMs** and **Dockers**, hosting websites and data -databases, images, videos- for the whole association.

### Software Engineer

#### Study project (ECL)

*Ecully, France* **09/2020 - 06/2021**

- Designed and implemented a chess game with complexe rules as an executable app on pc with 5 game modes in **Java**.
- Developed 2 AIs which play the game: one based on minimax and **alpha-beta pruning** research, reaching a depth of 4 in the research tree under 20s, and the other on **neural network**, computing a response under a predefined period.

## Education

### Engineering Master's Degree in Computer Science

#### Ecole Centrale de Lyon

*Ecully, France* **09/2020 - 09/2024**

- Computer science major: AI, Big Data, Neural Network, Web Development, Digital Business, Scrum

### Bachelor's Degree in Applied Math

#### Claude Bernard Lyon 1 University

*Lyon, France* **09/2020 - 06/2021**

- Differential Calculus and Complex Analysis, Matrix analysis, Probability and statistics, Measurement and integration

## Mentorship

- **Applied Math Instructor:** Differential Equations | Measurement and integration | Matrix analysis **(09/2021 - 12/2021)**

## Others

- General Secretary at AEECL (student association) | Manager of the Digital Transition's Committee
- Climbing | Swimming | Tennis | Judo | Kayaking | Mountain Biking | Treetop adventure course