Jean-Philippe MOLLA

DevOps & Full-Stack Senior Engineer

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Situation: married, 2 children
Location: France

MY PROFILE

Senior full-stack engineer with a passion for building useful and elegant tools,
I support teams and projects from early design to production deployment, with a solid background in DevOps, backend and frontend technologies (Vue3, NestJS, MongoDB, ElasticSearch).

My experience has allowed me to master both the technical and human aspects of software development, adapting to diverse environments — from rapid prototyping to secure and scalable production systems.

I enjoy solving real-world problems, crafting user-friendly applications, and continuously learning new technologies.

TECHNICAL SKILLS

> 7 years

> 10 years

> 15 years

COMPUTER SCIENCE

- **Development frameworks:** Vue3, NestJS/NodeJS, QuasarJS.
- **Databases:** MongoDB, PostgreSQL, MySQL, SQLite, ElasticSearch, Firebase.
- **Cloud platforms / CRM:** Salesforce (object modeling, SOQL, automation).
- **Web Development**:
    Techno: HTML5 / CSS3 / WebSockets, JavaScript / Typescript, Python, PHP
    Web servers: Apache, Nginx, Varnish, Haproxy
    DNS management and Linux-based web hosting
- **Production Tool Development:** VB.Net, VB6, C, C++, SQL Server.
    Librairies : Leadtools, GhostScript, Adobe PDF Library, PDFLib, iTextSharp
- **Network Administration:**
    IT infrastructure & system maintenance.
    Server administration (Windows 2000 to 2012, Linux Debian).
    Supervision & monitoring: Vyatta/VyOS, Nagios/Centreon, NagVis.
- **Virtualization:** VMWare, VirtualBox.
- **Version Control:** Git (preferred) or SVN.
- **Currently Learning:**
    Rust: cross-platform keyboard driver project
    Flutter: music sheet and team management app project

EXPERIENCES

SOFTWARE DEVELOPMENT & INFORMATION SYSTEM
Freelance
12/2018 – present

- **Clinisciences:** Developed customer management software, consolidated supplier data, and optimized web interfaces using Python, Java, JavaScript, Elasticsearch, and MongoDB.
- **Arista:** Created a customer request management and service provider tracking system for a travel agency (NestJS, VueJS, MongoDB, Redis).
- **FTE (caanadian school)**: Designed a student management system (course scheduling, report cards, enrollments) using Salesforce, VueJS, and NestJS, integrating third-party services such as Moneris and QuickBooks.

IT & NETWORK MANAGER
STUDIA
03/2008 – 11/2018   Neuilly-sur-Marne
■ Developed software tools for production management (DotNet, Python, web technologies, databases).
■ Designed and maintained the IT infrastructure (Linux and Windows).
■ Managed server and network administration.
■ Led large-scale projects for EDF (Bure site), BNP, and AG2R.

IT MANAGER
ITFJ - Institut de Théologie pour la Francophonie à Jérusalem
06/2005 – 02/2008   Jerusalem, Israel
■ Implemented and maintained IT infrastructure.
■ Developed promotional and administrative tools (databases, websites, video editing, advertising materials).

RESEARCH & DEVELOPMENT MANAGER
Ophrys Systèmes
07/2000 – 09/2003   Seyssinet-Pariset
■ Designed, developed, and supervised the production of an audio-guidance device for museum visits and related peripherals (video synchronization, anti-theft alarm, infrared and radio triggers, etc.).
■ Developed hardware-oriented software and designed electronic systems using ARM®-based microprocessors, FPGA & CPLD (Xilinx and Altera), and low-power supply systems.

TELECOMMUNICATION MANAGER ASSISTANT
SANEF
10/1999 – 02/2000   Reims
Assisted the head of operator relations and optical fiber infrastructure projects.

5-MONTH ENGINEERING INTERNSHIP
SELECOM (Sud électronique communication)
1999 – Prades
Conducted a feasibility study for integrating a GSM Micro-Repeater card.
Areas of focus: Microelectronics and telecommunication networks

EDUCATION

MICROELECTRONICS & TELECOMMUNICATIONS
Polytech'Marseille
09/1996 – 06/1999
Engineering Degree in Electronic Systems
Microelectronics & Telecommunications Department (ICF).

PREPARATORY CLASSES FOR ENGINEERING SCHOOLS
Lycée Antonin Artaud, Marseille
09/1994 – 06/1996   Math Sup. - Math Spé.

BACCALAUREAT IN ELECTRONIC
Lycée Jean Lurçat, Martigues
09/1990 – 06/1994
Graduated with highest honors (Mention Très Bien).

LANGUAGES

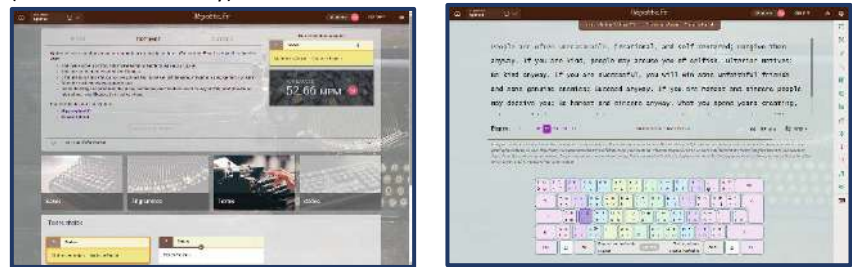| French	English	Hebrew
Native	**Fluent**	**Intermediate**

AWARD

FIRST PRIZE IN COMIC ART – PACA REGION, FRANCE
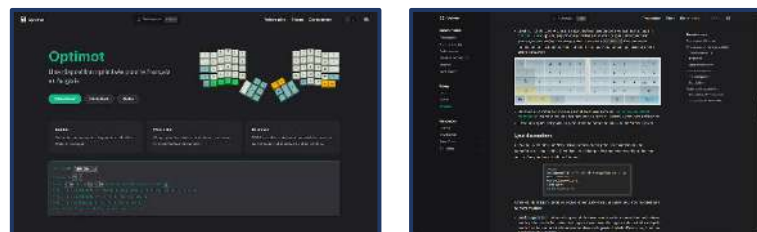*1996*

PERSONAL PROJECTS

Bépoète.fr

Reference website for learning touch typing with Bépo and Optimot keyboard layouts (alternatives to Azerty).

Techno: TypeScript, Vue3, QuasarJS, NestJS, MongoDB, ElasticSearch, Nginx
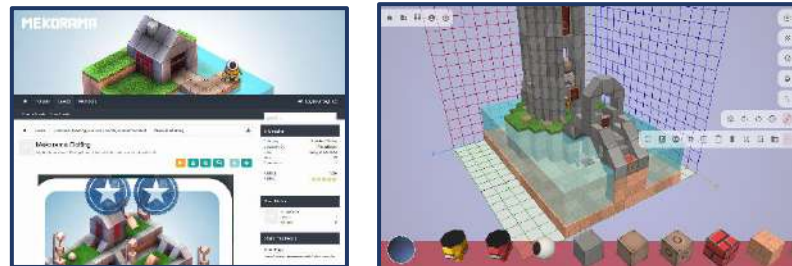
Optimot.fr

Development of keyboard drivers for Windows and Linux for Optimot: an optimized layout for French and English. Development of MacOS driver conversion tools.

Techno: Python, Linux (X11/XKB), Windows (KLC/KbdEdit), VuePress

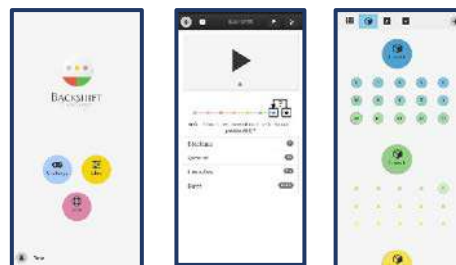### Mekostudio.com & Mekoramaforum.com

Community building and software tool development around the game Mekorama. Created gameplay statistics through web scraping and reverse-engineered game data to develop a web-based 3D level editing platform.

Techno: Python, JavaScript, Three.js, Bootstrap, XenForo, PostgreSQL, MariaDB

Backshift Challenge (2015)

Reflex-based Android game designed to measure and train short-term memory (no longer available on the Play Store).

Techno: JavaScript, Cordova