Mathieu Limonier, Programmer - Trainer

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SUMMARY

I love sharing my passion for IT and development, and especially making it as accessible as possible. I prefer an application to do one thing but do it well! I maintain a humble website where I provide simple and visual documentation on Open Software.

SKILLS

.Net Development, ASP.NET Development: C#, Razor, Blazor, Mudblazor, Wpf, .Net MAUI (beginner), .net framework 4.7, REST APIs, Minimal APIs, Controllers, Middleware, Authentification, Authorization, MediatR, Polly, Refit. Swashbuckle

General Development: Git, Subversion, CI-CD, Docker, Data structure, Clean code, SOLID, DRY, KISS, YAGNI, Microservices, MVC, MVVM, Dependency Injection, Logging, SignalR, Open Telemetry

Systems: Bash, Sh, Makefile, Powershell

Data Development: Design, Sql syntax, Relational, NoSQL, Entity Framework, Dapper, LINQ

Testing Development: Unit Testing, Integretion Testing, Snapshot Testing, Mocking, xUnit, Bogus, Fluent Assertion, NSubstitute, Verify, c-unit

Other languages - frameworks: C, C++, VHDL, Html5, Css, Markdown, Json, Xml, G, Arduino, Inno setup

Project Management: Kanban, Scrum, Ticketing, Gantt Chart, Waterfall Model, Agile

EXPERIENCE

Software Designer - *Automatic Systems* https://www.automatic-systems.com/

2020-01-01 - Present

I handle the integration of external devices into our gates in our external communication and door management application.

- Created a communication/command application between devices and an access authorization service (embedded in internally built gates).
- Created a maintenance application for the company's produced doors.
- Created a door management application.
- Created a comparison application for content from two stock management applications.
- Application to retrieve log files from embedded electronic boards.
- One-click installer for applications.
- Device simulator (readers, printer, screen, etc.).
- Communication simulator (AEA, SITA, etc.).

Developer/Data integrator - Bureau Van Dijk

2018-05-01 - 2019-12-01

https://www.bvdim.com/

I analyzed, structured, and improved datasets to transform them into a specific internal database format.

- Integrated data from a dozen countries into the internal database.
- Documented the internal application used to easily format data into the internal database.

Developer - Infrabel - Information & Communication Technology https://infrabel.be/

2018-02-01 - 2018-05-01

I was hired to migrate beacon-to-locomotive transmissions (TBL) to the European Train Control System (ETCS). I eventually worked on train station arrival displays.

Analyste développeur - S.D.T. International

https://sdtultrasound.com/

I was responsible for maintaining and improving the embedded program in a device that listens to ultrasounds.

- Maintenance of embedded program (Embedded C).
- Redesign of graphical interface (UI Business separation).
- o Implementation of unit tests.
- Implementation of an embedded debugging server.
- Code cleanup.
- Graphical application for battery load testing.
- Administration of a Kanban application.
- Demonstration application for the new firmware version (Embedded C++).

Stagiaire - I.E.M.N.

2013-08-01 - 2013-02-01

https://www.iemn.fr/

I automated a high-frequency microscope. The microscope was composed of two motorized tables with three movement axes (up/down, left/right, forward/backward), a control/data acquisition computer, and a high-frequency network analyzer (PNA-X Microwave Network Analyzer).

- Automated microscope movement (via joystick, multi-millimeter jumps).
- o Simplified microscope operations (initialization, approaching the element to measure).
- Simplified microscope use (automatic scanning, calibration).
- Taught C and Arduino in Bachelor's first year.
- Laboratory data acquisition and visualization.

PROJECTS

Personal server

Installation and management of a personal micro-server

2025-01-01

- Automated management
- Managed a free file hosting and collaborative work platform (Nextcloud).
- Managed multiple multimedia applications.
- Managed a software forge (Gitea, Jenkins).
- Managed a free video communication app (Jitsi Meet).
- Managed a free read-later app (Wallabag).
- Managed a feed aggregator (FreshRSS).

Static website (blog)

Creation, installation, and management of a static website with Easy IT help articles.

2025-06-20

- Website as lightweight and eco-friendly as possible
- o As simple as possible to use
- As simple as possible to create content
- Using Hugo

Home automation

Use and configuration of a free home automation program

2025-01-01

- Functional Zigbee network throughout my house
- Automation of complex actions
- Unified music management

Simplified Raspberry Pi OS with GNOME.

Creation, installation, and usage of a Debian/Ubuntu-based Linux distribution with the motto 'One application, one function'.

- Automated installation
- Application testing
- Ensured interface consistency over time
- Application configuration
- o Application documentation
- o Tutorials for application use

VOLUNTEERING

Les Scouts - Animateur

2005-01-01 - 2009-01-01

https://lesscouts.be/

Chef louveteaux (Bagheera).

Non-profit organization - Treasurer Treasurer of ASBL CEI.	2009-06-01 - 2011-06-01
Student association - President President of a student group (C.E.I.).	2012-06-01 - 2013-06-01
Student organization - President President of my higher education school's student council.	2011-09-01 - 2012-09-01

Noobeek - Membre I help with the creation, organization, and hosting of offline LAN parties 2010-01-01 - Present (friendly gatherings to play networked games without internet).

EDUCATION

Evoliris 2017-03-01 - 2017-08-31 Training - Android application development

Evoliris 2017-09-01 - 2018-02-01

Training - Cyber Defense and anti-intrusion

École Supérieur en Informatique (E.S.I.) 2009-09-01 - 2013-07-01

Bachelor - Informatique industriel

Algorithms
Computer Architecture
Operating Systems

o Java o C o C++

Assembler
Mathematics
Databases
Statistics
Physics
Electronics

• Microcontroller • Programmable Logic Controller • Data Acquisition, Visualization,

Project Management and Analysis

LANGUAGES

INITEDESTS

INTERESTS

French (Native language), English (Spoken: A1, Other: B1), Dutch (A1)

Software [free software , home assistant , yunohost , Raspberry Pi] , Games [video games , playing on Linux , board games , role-playing games] , Reading [bande dessinée , saga books , science fiction , fantasy] , DIY [woodworking , furniture upcycling , 3D printing] , Ecology [digital ecology , vegetable garden , recycling] , Model making [metal , plastic , wood , scene creation , train]

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