

Experience

- 2020-Present **Embedded Software Engineer, MicroEJ.**
- Software development on embedded and IoT devices in various domains : medical, industry, connected house, fitness
 - Projects management, Team lead, Mentoring, Customer Support and Training
 - Technical writing (documentation, tutorial, technical documents)
- Tech : Java/C/Python, Gradle/Ant/Make , µCOS-II/FreeRTOS/Linux, Docker/Jenkins/GitLab/GitHub, Youtrack/Jira, IAR/Keil/GCC, ARM/ESP32/RZ/STM32
- 2018-2020 **Embedded Software Engineer, Smile Open Source Solutions.**
- Development of a new firmware on a medical device (standard IEC 62304), Development, Testing, Specification and documentation writing.
- Tech : Java, C, Python, Octave, Docbook, µCOS-II
- 2014-2017 **R&D Machine Learning : Semantic Analysis and Opinion Mining, Started thesis at LS2N.**
- Semantic analysis of opinion using machine learning.
- Opinion classification using different typologies (positive/negative, joy/anger/love/agreement/...).
 - Identification of opinion target.
- Publications: <https://omecha.info/blog/research.html>
- Tech : Linux, Python, Java, C, C++, Perl, CUDA, Keras/Theano, GPU, Grid Computing, Machine Learning, Big Data
- March-July 2014 **R&D Machine Learning : Semantic Analysis of scientific articles, Internship at NII in Tokyo.**
- Semantic classification (Improvement/Use/Modification/Criticism/...) of citations in scientific articles to improve recommendation systems.
- Tech : Linux, Java, Common Lisp, Machine Learning, Big Data
- Summer 2013 **Developer GNU Emacs, Google Summer of Code.**
- Integrating GTK components in the GNU/Emacs text editor.
- Tech : Linux, C, Autotools/Make, Emacs Lisp, GTK+, Gdb
- Summer 2012 **Web development, Internship at LINA.**
- Development of a website to allow linguists to share Categorical Dependency Grammars (CDG) with Dikovsky Alexandre.
- Tech : Linux, Common Lisp, PostgreSQL, JavaScript, HTML/CSS
- Summer 2010 **Web development, Internship at Kelcom in Nantes.**
- Development of e-commerce websites of promotional products.
- Tech : Linux, PHP, Symfony, MySQL, JavaScript, HTML/CSS

Tech Skills

- Languages Java, C, C++, Python, Lisp
- Tools Git, Emacs/Eclipse/IntelliJ, Gradle/Ant/Make/CMake, Wireshark, Pen & Paper
- OS OpenBSD, Ubuntu, Debian, µCOS-II, FreeRTOS
- Sysadmin Mail, DNS, Web, CI, Docker, Proxmox, PostgreSQL

Education

- 2012–2014 **Master ATAL, University of Nantes.**
- Computer Science Master with a specialty in Machine Learning (ML) and Natural Language Processing (NLP)

Misc

- Free Software Development in various free software projects such as Emacs, Org Mode and OpenBSD
- Activism Member of FAImaison, Internet Service Provider at Nantes (Non Profit Organization)
- BGP, Virtualization, VPN, Lobbying
- Training Speaker & Trainer in Café Vie Privée Nantes (Non Profit Organization) to raise awareness of online privacy.
- Tor, GPG, VPN, Ad blocking, passwords manager