



John-Michael TO

Single

🇫🇷 French nationality

27 years old

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Lead Software Engineer / Solutions Architect

Industries: Telecommunications, Finance, Automobile

Interested in Internet of Things, Cloud, Big Data and Machine Learning

Work Experience

- 2019-2020
(ongoing) **Software Engineer & Field Application Engineer, SAGEMCOM, Shenzhen, CHINA**
- Led the set up of a Git mirror proxy for the whole Shenzhen R&D center increasing developers' productivity saving more than 125 working hours per day
 - Leading continuous integration in Shenzhen for all gateway products (DOCSIS, DSL/PON, LTE)
 - Designing & implementing continuous integration internal framework & infrastructure architecture as top contributor in Shenzhen (+75% of workload), second top worldwide (+20%)
 - Deployed more than 12 products in continuous integration in Shenzhen
 - Working within a cross-cultural & international team with different time zones
 - Improved automatic testing infrastructure cutting down the cost by 30%
 - Worldwide on-site customer support with key customers
 - Trained a dozen of software engineers (juniors & seniors) on communication, cultural differences, DevOps, preparation for overseas business trips
 - Technical & English interviewer
- Customers: KPN Netherlands
- Technologies: **Telecommunications, JIRA, Jenkins, GitLab, Python, Automation, Docker, Kanban, Scrum, Git, Bash, Web Programming, C/C++, Database, SQL**
- 2018-2019
(7 months) **Software Engineer, EPAM Systems, Shenzhen, CHINA**
- Lead developer of the chatbot team in Shenzhen for the financial organization Schrodgers
 - Set up a new project including control version tool, CI/CD pipeline, software design and architecture
 - Acted as the main communicator between the team in Shenzhen, Singapore and the customer
 - Defined user stories & architecture of the chatbot within Schrodgers' network
 - Led & implemented a chatbot as a research project using Kore.ai platform
 - Implemented an API using NTLM authentication in C# ASP.NET application
 - Implemented a front-end library of the chatbot in JavaScript
 - Clarified needs and requirements of the customer
 - Implemented stories to build up JS & Vue.js skills for Hongkong Land (property management)
- Technologies: **Azure DevOps, Azure Pipelines, SonarQube, Checkmarx, Confluence, Visual Studio Code, Visual Studio, Git, C#, Python, JavaScript, ES6, Scrum, Artificial Intelligence, Machine Learning, Vue.js, SQL**
- 2018
(2 months) **Product Manager & Field Application Engineer, PerceptIn, Shenzhen, CHINA**
- Signed up a partnership with a French distributor
 - Successfully trained 2 distributors (Taiwan & Singapore) on our technologies
 - Technical support to distributors and customers
 - Show our solutions to customers and understanding their needs to improve our products
 - Developed global target customers and managing overseas sales
- Technologies: Linux, Bash, Trello, G Suite
- 2016-2018
(2 years) **Software Engineer & Field Application Engineer, SAGEMCOM, Shenzhen, CHINA**
- Implemented generic web pages saving 80% of working hours
 - Worldwide on-site customer support obtaining 3 "GO" for mass deployment with key customers
 - Interface between project manager in France, Broadcom & customer in USA & dev team in China
 - Implemented a PoC for automating release notes using LaTeX & Python
 - Implemented on-site automatic tests saving 50% of working hours using Raspberry Pi
- Customers: **Altice USA, Magyar Telekom, Cablevisión Argentina, Claro**
- Technologies: **Telecommunications, JIRA, Network architecture & protocols, DOCSIS, Automation, Linux, Bash, Python, Web Programming (HTML/CSS/JavaScript), C/C++, SVN, Bugzilla, Wireshark, Raspberry Pi, Tcl script**

- 2016
(6 months) **IoT Junior Consultant** (Graduation internship), IBM, *Bois-Colombes, FRANCE*
- Implemented demo PoC (Proof Of Concepts) using IBM IoT solutions & Node-RED for sending data from a sensor tag to the Cloud via MQTT protocol
 - Implemented REST APIs in Node.js for managing the backend of a fleet management system
 - Implemented a user profile page with updating feature & data validation
 - Implemented email confirmation system when a user updates its email address
 - Implemented generic & independent widgets for a dashboard using AngularJS, D3.js & DataTables
 - Designed & implemented a geo-lookup widget defining points of interest based on GPS coordinates with Leaflet & OpenStreetMap
 - Set up a reverse geo-coding & its API for getting real addresses from GPS coordinates
 - Data analysis, cleaning, preparing data from raw GPS coordinates
 - Designed & implemented algorithms based on GPS coordinates using a tree data structure to determine & predict drivers' habits in order to find out their points of interest
 - Implemented tests of the algorithms with an converging accuracy going up to 95% over 1 month data
- Technologies: IBM Cloud, IBM IoT Foundation, Node-RED, **Node.js**, **AngularJS**, SPSS Modeler, Data analysis & processing, Machine Learning
- 2015
(4 months) **Software Engineer** (Technical internship), PSA Group, *Levallois-Perret, FRANCE*
- Defined functional & technical requirements of an internal email campaigns solution
 - Designed the prototype with Justinmind Prototyper & implemented the PoC in HTML/CSS/JavaScript
 - Implemented login to the interface with LDAP using Spring Security in Java/J2EE
 - Implemented a drag-and-drop feature using jQuery UI
 - Implemented a responsive design compatible with all browsers
 - Used a Model-View-Controller (MVC) architecture with internal framework
- Technologies: **Java**, **J2EE**, Spring MVC, Struts 2, Hibernate, Bootstrap, **JavaScript**, jQuery, XML, SoapUI, Eclipse, SVN, Apache Tomcat, GlassFish, SQL, UML, Maven

Education

- 2016 **Diplôme d'Ingénieur / Master of Science in Engineering** (GPA 3.33/4 - Ranked 2nd/182)
Major: Information System Architecture & Cloud Computing - **Efrei Paris**, Engineering School, *FRANCE*
- 2014 **Bachelor of Mathematics & Computer Science distinction**, **University of Marne-la-Vallée**, *FRANCE*

Publication

- 2016 **SentiWorld** : *Understanding Emotions between Countries Based on Tweets* - sentiworld.to.fr
International conference ICWSM-16 - Association for the Advancement of Artificial Intelligence (AAAI)
Technologies: **Machine Learning**, **Data Mining**, Sentiment Analysis, Text Mining, **Python**

Personal projects & volunteering

- 2020 **Technopreneur**: *Personal blog about technologies, business & entrepreneurship* - www.technopreneur.fr
Technologies: HTML5, CSS3, Jekyll, Ruby, JS, SCSS, GitHub Actions, Markdown, Git, SEO (Search Engine Optimization)
- 2013-2020 **Yuai Association**: *Volunteer server admin & developer for a French-Japanese association in Paris* - www.yuai.fr
Technologies: HTML5, CSS3, JS, Wordpress, SEO, security management
- 2009-2020 **Team-Sniper**: *Free redirection service website* - www.team-sniper.com
Technologies: HTML, CSS, PHP, MySQL, DNS, Apache, LAMP server
- 2007-2020 **JohnServ**: *Personal server transformed into a private hosting services*
Technologies: HTML, CSS, PHP, MySQL, Perl, iptables, Ubuntu, Debian, disaster recovery, SSH, FTP, DNS
- 2014-2016 **mindStreams**: *Flood monitoring & warning system based on Internet of Things (IoT)*
Technologies: Arduino programming, PHP, MySQL, Android, Sigfox API, Microsoft Azure
- 2014-2015 **Clickberty**: *Online game where the user has to click & make a choice through an interactive video* - clickberty.to.fr
Technologies: HTML5, CSS3, JS, jQuery, Adobe Premiere

Linguistic Skills

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|  French
Native |  English
Full professional proficiency |  Mandarin Chinese
Limited working proficiency |  Japanese
Limited working proficiency |
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Extracurricular Activities & Personal Interests

- Efrei International student club: **Former Vice-President** (2 years), managed a team of 20 people
- Sports: Handball (5 years), Martial Arts (7 years), Volleyball & Badminton (2 years), Salsa & Bachata (beginner)
- Other: Photography, Backpacking, New Technologies, Asian Cultures & Languages