

# Abdoulaye SIBY

143, Delilah Private, Ottawa, Ontario, K1T 2C3

Cell: 1-613-617-1671 (SMS Accepted)

[maestro@abdoulaye.com](mailto:maestro@abdoulaye.com)

LinkedIn: <https://www.linkedin.com/in/abdoulaye-siby-06660165>

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## RESUME

### PROFESSIONAL PROFILE

Detail-oriented IT professional with fifteen years of experience as a developer, and a unique combination of education and experience coming from a background of Industrial Engineering, Information Technology, Telecommunications, and a self-starter and quick learner personality. Productive team member skilled at operating in a wide range of platforms and technologies. Excellent written and oral communication skills... capable of explaining complex software issues in easy-to-understand terms.

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### PROFESSIONAL EXPERIENCE

#### **Idéeclic Inc.**

Gatineau, Québec

Software Developer -2008 – today

- Proficiently developed codes using OOP in PHP, Java, Objective C, Swift, JavaScript, and ActionScript.
- Improved the quality of the code produced by suggesting good programming practices, and IDEs that could help enforcing them.
- Efficiently used CVS during programming phases.
- Successfully backed up and migrated 100% of the existing SVN repositories to Git in order to benefit from its distributed nature.
- Presented used cases, convinced and trained the development team to use “Git Flow” in order to better handle releases, patches and new features developments.
- Developed a new procedure (involving backend and mobile device) that improved by more than 500% the data sync process of the company’s mobile platform.

- Architected and built (as part of the a team) the next generation of the company's mobile platform from the ground up: custom Drupal based CMS, Rest Service, Mobile Apps using Appcelerator Titanium.
- Created Appcelerator Titanium's native modules using Objective C and Java.
- Created an iPad museum app using the Swift language and featuring a simple game and an indoor localisation capability based on the iBeacon technology.
- Created several kiosk applications using Adobe Flash or NodeWebkit.
- Successfully found ways to run a client's Drupal web site (PHP, SQLite, Web Server) from a USB key for offline use using NodeWebkit.
- Managed internal and client project's databases.
- Administered the company's servers as well as some clients' servers.
- Managed backup schedules for the LAN servers and the various web sites under the company's responsibility.
- Performed network administrator's tasks by securing the network, improving it, replacing damaged equipment, etc.
- Wrote English and French contributions to project proposals that have successfully won the bids in response to RFPs.
- Planned and coordinated the design and implementation of web systems and solutions to meet existing and anticipated user requirements.
- Evaluated and estimated new features on projects to help project managers create more accurate budgets and schedules.
- Efficiently worked on multiple projects and managed time to ensure that schedules are met within budget.
- Successfully architected innovative solutions for unique and complex clients projects.
- Debugged, refactored and fixed countless coded developed by others.
- Contributed to several Open Sources projects used during our developments by improving them, fixing bugs, reporting bugs, or requesting new features.
- Wrote technical documentations for projects (conceptual manuals, technical manuals, training manuals, maintenance manuals, etc.)
- Provided on-site and online trainings to clients.
- Maintained a custom map server powered by a TileStream server using maps in MBTILES formats.
- Configured a virtual environment using Proxmox (<http://proxmox.com>) for handling instances of inSitu and other required servers.
- Created a VPS template for spawning new inSitu instances.
- Regularly installing needing security patched when needed by CMS and Servers.
- Optimized the Apache web server to improve performances.
- Developed the mobile Application in JavaScript using the Appcelerator Titanium Platform.
- Created a dynamic page builder for the inSitu mobile app to offer a better reusability of the in-app components and to better support the very different clients' applications generated by the inSitu platform.

- Researched, and implemented support for BLE (Bluetooth Low Energy) devices compatible with the iBeacon technology to add proximity alert and indoor localization capability to the inSitu mobile app platform.
- Added a push notification capability to the backend and the inSitu mobile app.
- Performed upgrades of the code whenever the underlying iOS, Android or Appcelerator Titanium SDK are changed.
- Deployed the iOS and Android apps to the corresponding application stores.
- Created more than a dozen large scope web projects involving hands-on programming work and the use of several front-end and back-end libraries, and programming languages.

### **Trillys Communications**

Sudbury, Ontario

Senior Developer and Architect - 2002 – today

- Created the next generation of an Ontario wide information portal called FrancoService that has 17 regional sub-sites and several hundreds members posting news, community events, job posting, etc.
- Analyzed and chosen the most suitable technologies for the second generation of the portal as an alternative to Microsoft ASP technology and a Microsoft Access database... and adopting the Drupal CMS on a LAMP stack.
- Created scripts for both offline migration and live progressive migration to reduce down time and efficiently screen out unused accounts.
- Creating several needed custom Drupal modules for the portal.
- Extended Drupal using custom built modules to meet the portal's requirements.
- Created custom reporting tools for the portal for providing a better insight about the portal's activities.
- Created a job-posting feature with purchasable tokens.
- Continuously improved the portal and applying security patches.
- Developed documentation and trained for new features.
- Evaluated and estimated the scope of new works.
- Administered the dedicated server and strengthened the security, fine-tuned it for optimal performances, applied security patches.

### **Intelec<sup>3</sup> S.A.R.L.**

Bamako, Mali

Director of Research & Development / Co-Founder - 1996 – today

- Configured VoIP Switches and PBX using Asterisk or FreeSwitch,
- Created a long distance calling card system.
- Created an SMS gateway based on the Open Source Kannel and using a connected mobile device.

- Created a better alternative to the Open Source Kannel by developing an Android Mobile App that could out-perform Kannel using an average Android device found on the market.
- Created Interactive Voice Responders (IVR).
- Created an IVR based reseller platform with integrated mobile money transfer system.
- Installed and configured digital voicemail servers.
- Gained an expert level knowledge about VoIP billing.
- Became one of the top contributors on the Star2Billing support forum (a VoIP billing web based software).
- Configured cloud servers for hosting VoIP systems.
- Created a Mesh Telephone Network as an alternative to regular landline and cellphone networks where those are not accessible.
- Continuously researching in order to find the next technologies that will keep the company ahead of the competition.

### **Additional experience**

Additional experience includes:

- A Business Adviser and Web Developer job at Collège Boréal in Sudbury Ontario (2001 – 2007)
- An internship as Web Developer at the CHYC FM Radio Station in Sudbury Ontario (2001)

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## **EDUCATION**

### **Information Technologist – May 2001**

College Boreal, Sudbury, Ontario

GPA 4.0

Some subjects of studies:

- Database Technologies: MS Access, Oracle, MySQL;
- Web Servers: Apache, IIS, Microsoft Personal Web Server (PWS);
- Web Development: HTML, ASP, JavaScript, CSS, Flash, Photoshop;
- Object Oriented Programming (C++);
- Server Administration: Windows et Linux/Unix;
- Networking (CISCO equipment)

Winner of the Governor General of Canada Medal in 2001

## **Industrial Engineer – June 1997**

École National d'Ingénieurs, Bamako, Mali  
Graduated with High Honours

With a strong focus on electrical systems, automation, electronic and embedded systems using microcontrollers.

## **SKILLS**

### **Language Skills**

- French: Spoken, Written
- English: Spoken, Written
- Bambara: Spoken, Written

### **IT Skills**

- Coding
- Communication
- Creativity
- Determination
- Leadership
- Listening
- Mentoring
- Negotiation
- Networks
- Presentation
- Teamwork
- Time Management

### **Computer Skills**

- Acorn (the software)
- Adobe Photoshop
- Analytics (Google, Crashlytics, etc.)
- Android Development
- Angular
- APIs
- Appcelerator Titanium Platform (for mobile app development)
- Assembly Language
- Backup Management
- BLE (iBeacon, Eddystone)
- C
- C++
- Cloud
- CommonJS
- Computer Platforms: Mac, Linux, Windows
- Content Management Systems
- CSS / LESS / SASS
- Database Administration
- Drupal
- Front-end development
- Git (Local Repos, Github, Bitbucket, etc.)

- Google Cloud Messaging
- Hardware Prototype Computer Simulation (Electronic)
- HTML 5
- iOS Development
- Java
- JavaScript
- JavaScript Libraries (jQuery, Underscore, Lodash, Backbone, etc.)
- JSON
- Kannel
- Kiosk & Touch Screen interactivity
- LAMP / WAMP
- MS Access
- MySQL
- NodeJS
- Objective C
- Office Suites (MS Office, Open/Libre Office, Page, Numbers, Keynote, etc.)
- OOP (Object Oriented Programming)
- PHP
- SQLite
- Swift
- Virtualization (Proxmox, VirtualBox, Open VZ, QEMU, VMware, etc.)
- Voice Over IP (PBX, Soft Switches, IVR, Billing, SIP Routers, etc.)
- Web Servers (Apache, NGINX, IIS, PWS)
- Web Services (REST, JSON, XML-RPC, JSON-RPC, etc.)
- XML
- Etc.

### **Computer Skills (others)**

The following skills (in alphabetical order) have been acquired through self-teaching to keep up with recent technologies, known best practices, and for personal projects.

- Cocos2d
- Firmware building (for OpenWRT embedded devices)
- Godot Game Engine
- Mesh Networking
- Lua
- NativeScript (for mobile app development)
- .NET
- Open Source Software (active contributor)
- Play Framework
- Python
- Scala Language
- Software Automation
- Software Testing
- Symfony

- Testing Frameworks
- TypeScript
- Etc.