Armstrong **Foundjem**

SOFTWARE ENGINEER · CLOUD DOMAIN

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"To work in a competitive environment that effectively utilizes my technical, analytic, logical, interpersonal, communication, leadership and organizational skills to conceive and achieve solutions. The solutions that help the organization to meeting its targets and to grow as well, thereby, enhancing my own skills as an individual and as a key team player in the organization's development."

Summary

Research associate at MCIS Laboratory. Previously, M.A.Sc., Student at SWAT Laboratory, École Polytechnique, Montréal Canada. Research area involves: Applying Software Engineering techniques on AI algorithms/system.

Big/Deep Data Analytic – Mining massive datasets to find patterns and to make predictions using Statistical tools, deep learning and both supervized and unsupervised learning models.

Education

École Polytechnique de Montréal.   *Montreal, Canada*

PH.D., STUDENT IN COMPUTER AND SOFTWARE ENGINEERING – MCIS LABORATORY   *Winter 2018 - Present*

• Scholarship ($15,000)– Fondation Universitaire

École Polytechnique de Montréal.   *Montreal, Canada*

M.A.SC. IN COMPUTER AND SOFTWARE ENGINEERING – SWAT LABORATORY   *Winter 2015 - Summer 2017*

• Scholarship ($18,000)– Fondation Universitaire

Bishop's University, Lenoxville.   *Sherbrooke, Canada*

B.SC. IN COMPUTER SCIENCE MAJOR WITH CO-OP   *Fall 2012 - Summer 2015*

• Scholarships: – Entrance and City of Sherbrooke Scholarships.

LaSalle College.   *Montreal, Canada*

DEC. IN COMPUTER SCIENCE WITH CO-OP   *Fall 2009 - Summer 2012*

City & Guilds of London Institute   *London, UK*

ADVANCED DIPLOMA, MICRO-ELECTRONICS AND TELECOMS ENGINEERING   *Fall 2004 - Summer 2006*

• Distinction

Publications

10th IEEE International Conference on Software Testing, Verification and Validation (ICST 2017)   *Tokyo, Japan*

PRESENTER: ICST-2017 CONFERENCE.   *March. 2017*

• Broadcast vs. Unicast Review Technology: Does it Matter?

Skills

Machine Learning:	R, Python, Weka, MathLab, Julia, Tensorflow ⇒ A.I, Applied Machine Learning, Deep-learning.
DevOps:	Full stack Dev (MEAN Stack), (MAMP), Containers – K8s, Dockers, Ansible, OpenShift, CD-CI.
Code Review:	Upstream/DownStream Dev., Git, GitHub, GitLab, Gerrit, Gertty, Jira ⇒ OpenStack & Linux Foundation
Programming:	Command Line, VIM and Emacs – Org-mode⇒ Node.JS, Python, Bash, R, C/C++, Scala, Scheme, HASKEL, Prolog, JAVA, PHP, VB.Net, LaTeX.
Hacking, Sniffing:	wireshark, tcpdump, etc. ⇒ CSE - Ottawa, Canada
Operating Systems:	Linux(Fedora, Ubuntu, RedHat), Unix (OpenDSB, FreeBSD, Mac OS), Windows.
Databases:	MongoDB, MySQL, Miranda, Dynamo, Microsoft SQL Server 2008+, Oracle 10/11/12G.
Linguistic:	**English**: fluent (speaking, reading, writing), **French**: fluent (speaking, reading) basic(writing)

Experience – Professional

Abakwa Valley Inc. _Montreal, Canada_

SOFTWARE ENGINEER _July. 2017 - Present_

- Consultation with the Government of Southern Cameroon. Building an integrated software platform to manage biometric ID for citizens, an on-line voting system and a policy program codename "Retour au Pays Natal –RPN." which manages deceased citizens abroad and helps to repatriate their corps.

(Communications Security Establishment - CSE) – (Intern) _Ottawa, Canada_

COMPUTER ENGINEER _May 2015 - Sept. 2015_

- Main task relates to Hacking, sniffing, etc. The details of this job remain highly classified and confidential.

LASSENA Research Laboratory – (Intern & Team Lead) _Montreal, Canada_

SYSTEM ANALYST – (VEHICLE TRACKING AND ACCIDENT DIAGNOSTIC (RECONSTRUCTION) SYSTEM (VTADS)) _May 2014 - Dec. 2014_

- Building black boxes for vehicles; test bench to reconstruct accident scenario, and drivers' behaviors.
- This project aims to establish new design methods for robust and efficient automotive navigation and optimal management of a fleet of vehicles in harsh environments. In addition, the project also aims to develop innovative metrics for real-time analysis of dangerous driving behavior as well as real-time analysis of car accidents in order to significantly improve global safety of Canadian drivers.

Pastel Telecoms S.A _Douala – Cameroon_

TELECOMS ENGINEER _Jan. 2006 - June 2010_

- In charge of designing, implementing, configuring and and managing industrial networks using CISCO routers and switches, Bandwidth managers etc.

Facebook Head Office. _California_

PROGRAMMER _Jan. 2013 - June 2013_

- Involve in writing Scala and Python code for the geographic data processing engine for high performance applications.

Society of Engineers (incorporated) UK _Essex, UK_

CONSULTANT _Apr. 2001 - May 2005_

- Providing consultation services to governmental, non-governmental organizations on standards.

Experience – Academia

Ecole Polytechnique Montreal – Conception of dynamic website, Log4420. _Montreal, Canada_

TEACHING ASSISTANCE (TA)) _FALL 2016_

- Preparing Labs for course Log4420. Topics include but not limited to: Design of complex and dynamic websites, which generates contents and management of interactions with users. Overview of web architecture and HyperText Transfer Protocol (HTTP), Understanding HTML5, Pug, CSS, Node.js, express, Angular2, MongoDB, etc.

Ecole Polytechnique Montreal – Conception of dynamic website, Log3000. _Montreal, Canada_

TEACHING ASSISTANCE (TA)) _FALL 2016_

- Preparing Labs. Topics include: Basic activities of a software engineering process. Phases of the software life cycle. Tools and methods of support to the process. Overview of different software development process philosophies. Technical disciplines of the software engineering process. Process evaluation. Process improvement. Methods of representation of the processes. Meta model. Empirical analysis of processes.

Extracurricular Activity

Software Engineering for Machine Learning Applications (SEMLA) 2018
STUDENT VOLUNTEER

- As a student volunteer, I provided a wide variety of help to the SEMLA2018 conference. I served as social media (tweetr, facebook) coordinator.

Montreal

June. 2018

General Assembly and Scientific Symposium of the International Union of Radio Science (URSI) - GASS 2017
STUDENT VOLUNTEER

- As a student volunteer, I provided a wide variety of help to the URSI conference. I served at the front desk registration, making sure attendees get themselves register and set for the conference. and also, during the conference, I collaborated with the coordinators and other students to assist and attend to speakers/attendees needs.

Montreal

August. 2017

OpenStack Foundation – (Open Source project.)
FOUNDATION MEMBER

- Involve in the Sahara project; Big Data analytic project of OpenStack
- Involve in the Scientific working group of OpenStack Foundation.

Global

May. 2015 - PRESENT

OpenStack Foundation
LEADERSHIP TRAINING - SCIENTIFIC WORKING GROUP

- Training leaders, developers and working groups' members to better serve the community and to improve collaboration, which might enhance the quality of the ecosystem.

Ann Arbor, MI, USA.

April. 2017

OpenStack Summit
FOUNDATION MEMBER

- Intensive training and workshops on OpenStack cloud services and projects.

Barcelona

Oct. 2016

AWS
GOVERNMENT, EDUCATION AND NONPROFITS SYMPOSIUM / SUMMITS

- Training sessions and workshops on cloud computing running on AWS platform.

Washington D.C, New York

June/Aug. (2015) / (2016)

Canada Wide Science Festival
SCIENCE JUDGE

- Volunteer: Evaluating undergraduate research project across various schools and provinces within Canada. The projects are ranging from a wide variety of subject areas, including Machine learning, A.I, Physics, Mathematics, Bioinformatics and Robotics etc.
- Participating in decision making processes.

Canada

2016 - PRESENT.

Quebec Undergraduate Robotic Competition.
ROBOTIC JUDGE

- Volunteer: Evaluating undergraduate robotic project in Quebec, These Robots are programmed to do a wide variety of tasks such learning best path to navigate and avoid collision.
- Participating in decision making processes.

Quebec

Summer 2014.

McGill University.
ENGINEERING JUDGE

- Volunteer: Evaluating the projects of undergraduate Engineering students at McGill University Montreal, Canada. Quebec, These projects were multi-disciplinary in nature spanning all the engineering fields taught at McGill.
- Participating in decision making processes.

Quebec

Winter 2016, 2018.

IEEE – Computer Society & IEEE Young Professionals
MEMBER

- Volunteer in section branch activities and Attending conferences and training workshops.
- Participating in decision making processes such as voting etc.

U.S.A

Nov. 2003 - PRESENT

References

Referees: Upon request.