

Marc-André Labelle

FOOD PROCESS JUNIOR ENGINEER · COMPUTER SCIENCE STUDENT

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"The most important intelligence is not artificial"

Formation Académique

Baccalauréat en génie alimentaire

UNIVERSITÉ LAVAL

- Combinaison de notions de génie chimique et de science & technologie des aliments en génie alimentaire

Mai 2019

Oubien

Baccalauréat en informatique et génie logiciel

UQAM Université du Québec À MONTRÉAL

- Il s'agit d'études informatiques dont les langages étudiés sont principalement Java, C et C++

May 2021

Candidat à l'obtention du baccalauréat

Skills

DevOps	AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCI
Back-end	Koa, Express, Django, REST API
Front-end	Hugo, Redux, React, HTML5, LESS, SASS
Programming Languages	Node.js, Python, JAVA, OCaml, LaTeX Korean, English, Japanese

Experience

Omnious. Co., Ltd.

SOFTWARE ARCHITECT

- Provisioned an easily manageable hybrid infrastructure(Amazon AWS + On-premise) utilizing IaC(Infrastructure as Code) tools like Ansible, Packer and Terraform.
- Built fully automated CI/CD pipelines on CircleCI for containerized applications using Docker, AWS ECR and Rancher.
- Designed an overall service architecture and pipelines of the Machine Learning based Fashion Tagging API SaaS product with the micro-services architecture.
- Implemented several API microservices in Node.js Koa and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment(ELK, Filebeat, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Deployed a centralized monitoring environment(Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

Seoul, S.Korea

Jun. 2017 - May. 2018

PLAT Corp.

CO-FOUNDER & SOFTWARE ENGINEER

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

Seoul, S.Korea

Jan. 2016 - Jun. 2017

Undergraduate Research, Machine Learning Lab(Prof. Seungjin Choi)

RESEARCHER

- Researched classification algorithms(SVM, CNN) to improve accuracy of human exercise recognition with wearable device.
- Developed two TIZEN applications to collect sample data set and to recognize user exercise on SAMSUNG Gear S.

Pohang, S.Korea

Mar. 2016 - Exp. Jun. 2017

R.O.K Cyber Command, MND

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

Seoul, S.Korea

Aug. 2014 - Apr. 2016

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

NEXON

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

Seoul, S.Korea & LA, U.S.A

Jan. 2013 - Feb. 2013

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.
- Won the 2nd prize in final evaluation.

Undergraduate Research, Computer Vision Lab(Prof. Bohyung Han)

RESEARCHER FOR <DETECTING VIDEO'S TORRENTS USING IMAGE SIMILARITY ALGORITHMS>

Pohang, S.Korea

Sep. 2012 - Feb. 2013

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Software Maestro (funded by Korea Ministry of Knowledge and Economy)

SOFTWARE ENGINEER TRAINEE

Seoul, S.Korea

Jul. 2012 - Jun. 2013

- Performed research memory management strategies of OS and implemented in Python an interactive simulator for Linux kernel memory management.

ShitOne Corp.

SOFTWARE ENGINEER

Seoul, S.Korea

Dec. 2011 - Feb. 2012

- Developed a proxy drive smartphone application which connects proxy driver and customer. Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

SAMSUNG Electronics

FREELANCE PENETRATION TESTER

S.Korea

Sep. 2013, Mar. 2011 - Oct. 2011

- Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.
- Conducted penetration testing on SAMSUNG Smart TV.

Program Committees

2016	Problem Writer , 2016 CODEGATE Hacking Competition World Final	S.Korea
2013	Organizer & Co-director , 1st POSTECH Hackathon	S.Korea
2012	Staff , 7th Hacking Camp	S.Korea
2012	Problem Writer , 1st Hoseo University Teenager Hacking Competition	S.Korea
2012	Staff & Problem Writer , JFF(Just for Fun) Hacking Competition	S.Korea

Honors & Awards

INTERNATIONAL

2018	Finalist , DEFCON 26th CTF Hacking Competition World Final	Las Vegas, U.S.A
2017	Finalist , DEFCON 25th CTF Hacking Competition World Final	Las Vegas, U.S.A
2014	Finalist , DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	Finalist , DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	Finalist , DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A
2012	6th Place , SECUINSIDE Hacking Competition World Final	Seoul, S.Korea

DOMESTIC

2015	3rd Place , WITHCON Hacking Competition Final	<i>Seoul, S.Korea</i>
2017	Silver Prize , KISA HDCON Hacking Competition Final	<i>Seoul, S.Korea</i>
2013	Silver Prize , KISA HDCON Hacking Competition Final	<i>Seoul, S.Korea</i>
2013	2nd Award , HUST Hacking Festival	<i>S.Korea</i>
2010	3rd Award , HUST Hacking Festival	<i>S.Korea</i>
2012	3rd Award , Holyshield 3rd Hacking Festival	<i>S.Korea</i>
2011	2nd Award , Holyshield 3rd Hacking Festival	<i>S.Korea</i>
2011	5th Place , PADOCON Hacking Competition Final	<i>Seoul, S.Korea</i>