

Sigefroid Van Haelst

TECHNOLOGY COORDINATOR · SYSTEM ARCHITECT

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Summary

Current Site Reliability Engineer at start-up company Kasa. 7+ years experience specializing in the backend development, infrastructure automation, and computer hacking/security. Super nerd who loves Vim, Linux and OS X and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Work Experience

Omnious. Co., Ltd.

Seoul, S.Korea

SOFTWARE ARCHITECT

Jun. 2017 - May. 2018

- Provisioned an easily managable 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.

PLAT Corp.

Seoul, S.Korea

CO-FOUNDER & SOFTWARE ENGINEER

Jan. 2016 - Jun. 2017

- 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.

R.O.K Cyber Command, MND

Seoul, S.Korea

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

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

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

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

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.

ShitOne Corp.

Seoul, S.Korea

SOFTWARE ENGINEER

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

S.Korea

FREELANCE PENETRATION TESTER

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.

Education

HEH Sciences & Technologies (Former « Institut Supérieur Industriel de Mons »)

Mons

INDUSTRIAL ENGINEER IN ELECTRICITY ORIENTATION COMPUTER SCIENCE

2001 - 2005

- Relationship & Communication Management
- Cooperation Dynamic & Team Management
- Leadership & Management
- Coaching & Support Behaviour
- Negotiation & Mediation

Language

- **French** : Native
- **English** : Professional working proficiency
- **German** : Basic

Skills

- **Requirement Management** : Integrity
- **Project Methodolgy** : V cycle, Agile, PRINCE2
- **Requirement Management** : Integrity
- **Development Environment** : DO178 (DAL C), Mil-Std 882E, MISRA C
- **Language** : C, C++ (STL, Boost & ASIO), C#
- **Script** : Python
- **Issue Tracker** : Redmine
- **Revision Control** : Git, SVN
- **MCU** : C28x, ARM Cortex M, ARM Cortex R (TMS570), AVR ATXMega, PIC24F, PIC18F, eZ80, 8051
- **RTOS** : PikeOS, FreeRTOS
- **Field Bus** : CAN, Mil-std 1553, Mil-std 1760, LIN, Ethernet
- **Board Bus** : SPI, I2C, 1Wire
- **PCB** : EagleCAD
- **Office Software** : Windows, Word, Excel, Ubuntu, OpenOffice