

Lundtoftevej 162F, Kongens Lyngby, Copenhagen, Denmark

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Education

DTU (Technical University of Denmark)

MASTER COURSE IN COMPUTER SCIENCE AND ENGINEERING

Lyngby, Copenhagen, Denmark

September 2024 - Current

UNIFF (University of Studies of Florence) promising students in CSE Dept.

Florence, Italy

BACHELOR COURSE IN COMPUTER ENGINEERING

September 2019 - April 2024

Address: Piazza S.Marco, 4, 50121 Firenze (Italy)

Website: https://www.ing-inl.unifi.it/index.html?newlang=eng

Skills

DevOps AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCl

Back-end Koa, Express, Django, REST API

Front-end Hugo, Redux, React, HTML5, LESS, SASS **Programming** Node.js, Python, JAVA, OCaml, LaTeX

Languages Korean, English, Japanese

Work Experience

SNAP4 S.r.l. Sesto Fiorentino, Florence, Italy

SOFTWARE ENGINEER

March 2024 - August 2024

- Provisioned an easily managable hybrid infrastructure (Amazon AWS + On-premise) utilizing IaC (Infrastructure as Code) tools like Ansible, Packer
- 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.

PRIVATE TUTOR 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.

R.O.K Cyber Command, MNDent module which connects to major PG(Payment Gateway) companies in Korea.

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.

NEXO mented a military cooperation system which is web based real time messenger in Scala on Lift.

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.

ShirtOne Corp.

Seoul, S.Korea

• Developed a proxy drive smartphone application which connects proxy driver and customer.

SOFTWARE ENGINEER Dec. 2011 - Feb. 2012

· Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding

SAMSUNG Electronics

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.

Extracurricular Activity

B10S (B1t 0n the Security, Underground hacker team)

S.Korea

CORE MEMBER Nov. 2011 - PRESENT

- · Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.

wiseGuys (Hacking & Security research group) fun.

S.Korea

MEMBER Jun. 2012 - PRESENT

 Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and settop box.

PoApper (Developers' Network of PostECH) rom basic to advanced and ethics for white hackers by hosting annual Hacking Camp. Korea

Core Member & President at 2013

Jun. 2010 - Jun. 2017

· Reformed the society focusing on software engineering and building network on and off campus.

PLUS (Laboratory for UNIX Security in POSTECHISE awareness.

Pohang, S.Korea

Мемвеr Sep. 2010 - Oct. 2011

- · Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.

MSSA (Management Strategy Club of Post Ectional agency and corporation.

Pohang, S.Korea

Мемвеr Sep. 2013 - Jun. 2017

- · Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- · Gained expertise in business strategy areas and inisght for various industry from weekly industry analysis session.

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

Presentation

DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

PRESENTER FOR < HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

Nov. 2017

• Introduced the history of web technology and the JAM stack which is for the modern web application development.

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR < DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

6th Hacking Camp - S. Korea) hacking competition and advanced techniques and strategy for CTF

S.Korea Sep. 2012

Introduced basic procedure for penetration testing and how to use Metasploit

Writing

A Guide for Developers in Start-up

PRESENTER FOR <METASPLOIT 101>

Facebook Page

FOUNDER & WRITER Jan. 2015 - PRESENT

AhnLab S.Korea

Undergraduate Student Reporter Oct. 2012 - Jul. 2013

• Drafted reports about IT trends and Security issues on AhnLab Company magazine.

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

JANUARY 31, 2025 FEDERICO MARRA · CURRICULUM VITAE