

Scott N. Simontis

SR. SOFTWARE ENGINEER · SYSTEMS ENGINEER

Atlanta, GA

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"Move fast and break things...with stable infrastructure."

Education

Georgia Institute of Technology

Atlanta, GA

B.S. COMPUTER SCIENCE (INCOMPLETE)

Aug. 2009 - May 2013

- 94 of 126 credit hours completed; left school to become an Emergency Medical Technician.
- Specializations: Systems and Architecture, Information Internetworks
- Participated in Collaborative Workforce undergraduate research program to design a hardware/software setup to capture lectures in high-definition video and stream the content through Ethernet connections. Studied data sheet and reference manual for a TI DaVinci DSP controller to develop a high-level architecture for development efforts. Maintained team wiki knowledge base. Assisted graduate research students with development of C program to display a real-time spectrogram for use as team demo at end of semester.

Georgia EMS Academy

Loganville, GA

EMERGENCY MEDICAL TECHNICIAN CERTIFICATE

2013 - 2014

- Completed curriculum required to take the National Registration of Emergency Medical Technicians exam at the Emergency Medical Technician level.
- Worked 80 hours of clinicals with South Fulton EMS as part of an Advanced Life Support crew.
- Completed curriculum required to take the National Registration of Emergency Medical Technicians exam at the Advanced Emergency Medical Technician level.

Skills

DevOps	Azure DevOps, Git, GitLab CI, BitBucket, JIRA, Docker, Docker Compose, Linux System Administration, LXD containers, Vagrant, Pack
Back-end	Terraform, Jenkins, Chef, Puppet, Ansible, Fabric, Capistrano, Nginx, IIS 10, Varnish, Memcached, Octopus Deploy, HyperV, QEMU, K
Front-end	ExpressJS, NestJS, ASP.NET MVC, ASP.NET Web API, ASP.NET Core, REST API development and integration, OAuth 2.0, Content Deliv
Programming	Networks, SOLR, Lucene, Elasticsearch
Databases	Hugo, Redux, React, Vue, Vuex, Nuxt, Gridsome, GraphQL, HTML5, SCSS, CSS3, jQuery, Elm, Reason, Yarn, NPM, RequireJS, GulpJS, Webpack
Content Management	NodeJS, ES6, TypeScript, C#, F#, Python, Bash, Go, C, Ruby
Azure	Microsoft SQL Server, Azure SQL, T-SQL, PostgreSQL, PL/pgSQL, MongoDB, ReThinkDB, Entity Framework 6/Core, Redis
AWS	Sitecore 7.2 - 8.1, Kentico 10, Factor, RawCMS
	Virtual Machines, Application Insights, Service Fabric, Active Directory, Active Directory B2C, Sphere, App Service, Cognitive Search, T
	Management, Azure CLI, Virtual Networks, DNS, Application Gateway, Key Vault, Blob storage, File storage, Web apps, Service Bus, T
	Analytics, Power BI, Batch, Cloud Services, IoT Hub, Azure Resource Manager, Firewall, Web Application Firewall
	Simple Notification Service, Simple Queue Service, EC2, Lightsail, Batch, Elastic Container Registry, Elastic Container Service, Simp
	Email Service, DynamoDB, CloudFormation, Route 53, CloudFront, VPC, IAM, Certificate Manager, Firewall Manager, Secrets Manag
	WAF, S3, EBS, EFS

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.

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

Pohang, S.Korea

RESEARCHER

Mar. 2016 - Exp. Jun. 2017

- 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.

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.

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

Pohang, S.Korea

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

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)

Seoul, S.Korea

SOFTWARE ENGINEER TRAINEE

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.

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.

Extracurricular Activity

B10S (B1t On 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.
- Held several hacking competitions non-profit, just for fun.

WiseGuys (Hacking & Security research group)

S.Korea

MEMBER

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

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.
- Conducted penetration testing commissioned by national agency and corporation.

MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

MEMBER

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 insight 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.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

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

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea

PRESENTER FOR <METASPLOIT 101>

- Introduced basic procedure for penetration testing and how to use Metasploit

[S.Korea](#)

Sep. 2012

Writing

A Guide for Developers in Start-up

FOUNDER & WRITER

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

[Facebook Page](#)

Jan. 2015 - PRESENT

AhnLab

UNDERGRADUATE STUDENT REPORTER

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

[S.Korea](#)

Oct. 2012 - Jul. 2013

Program Committees

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

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