

Hagyoon Choi

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A software engineer with over 15 years of experience.

Experienced and knowledgeable in software development from beginning to end, from front to backend, from build to release, from development to production. Worked on many different projects from small to large scales, from scratch to a large legacy codebase.

I also did several freelancing before&at the beginning of my career that is not stated in the following sections. I've been proclaimed to be a coder+hacker ever since I wrote a quiz game in GW-Basic and hacked the BBS.

I'd like to take a challenging role in the field of software development and work with the like-minded smart and interesting people

## PROFESSIONAL SUMMARY

Jan. 2016 –Nov.2021

**Nexon America**

El Segundo, California, USA

### DevOps Engineer

- Working as a DevOps and launching multiple online game projects such as Lawbreakers, Rocket Area and Hyper Universe. (Establishing processes between developer and production and for a release cycle. Backend system review, conducting load test, live operations, beta&launching preparation, creating&managing production, and testing environments for the different purposes, automating environment creation, preparing autoscaling, adding monitoring metrics and logging, etc.)
- Maintaining Legacy game services such as Mabinogi, Vindictus
- Developing tools for the online game operations such as LogViewer(remote log tailing tool with middle servers for the ACL and Routing), Alice(CRM tool).
- Cloud Provider: AWS (EKS, ECR, S3, Dynamo, ELB, Kibana, GameLift, etc)  
*Docker, Kubernetes, Splunk, Spinnaker, Helm, Zabbix, Jenkins, Rundeck, Zabbix, Grafana,Ansible,Terraform and etc*  
Language: Python, Golang, c#, Javascript  
*Web: ASP, Django, Bootstrap, AngularJS*

Mar. 2013 – Dec.2015

**Crytek, Gmbh**

Frankfurt Am Main, Germany

### Generalist Programmer

- Designing & developing the scalable backend for Hunt: showdown project.
- Working on the backend, the build, and the deployment system for the Warface West project.
- Developing tools for the game engine such as asset validation system (asset manager, validating assets based on the level resource usage, validating procedurally generated LOD by taking a snapshot, etc) and vehicle design system.
- Language: C/C++, python, C#  
*Platform: Windows*

*Version control: Perforce*

*ETC: Waf(meta build system), QT(GUI Framework for the game engine tool development)*

*Backend Framework: Orleans, protobuf*

Apr. 2012 – Mar.2013 **Crytek Seoul**

Seoul, Korea

### **Generalist Programmer – lead role**

- Localizing&Launching one of the most successful games in Russia, Warface, in South Korea
- Working with the overseas studio and publisher for the successful launching of the game in South Korea. contributed Warface Korea service throughout from preparing the first closed beta to live service.
- Working on the complex build & deployment pipeline system that involves obfuscation of client code, backend services, etc.
- Writing code for client & backend localization. (profanity filter and other systems for the legal requirements )
- Writing code the publisher platform integration (SSO, monetization, monitoring, security).
- Developing a crash reporting system,
- *Language: Erlang(ejabberd), C#, C/C++. Python, Javascript, MSBuild.*  
*Database: MySQL*  
*Platform: Windows, Linux*  
*Version control: Perforce*  
*Web: Php, Django*

Jan. 2010 – Apr. 2012 **Nexon, Corp**

Seoul, Korea

### **Generalist Programmer**

- Participated in one of the most successful online video games projects in South Korea, KartRider.
- Designing&Developing a new game mod(giant battle mod, boss mod) for KartRider.
- Developing events systems for KartRider.
- Proactively proposing&conducting new systems integration to the development process for improving productivity such as IDE or visual studio upgrade, adapting modern source control system(mercurial).
- Experiment with the engine code for improvement such as higher resolution support, migrating software toon rendering code to shader code.
- *Language: C/C++.(with STL).*  
*Database: MS-SQL*  
*Platform: Windows*  
*Version control: SVN, Mercurial*  
*ETC: Direct X9, IOCP(IO-completion port)*

Jan. 2006 – Jan. 2009 **Autobrain, Inc, Software Developer**

Seoul, Korea

### **Software Engineer**

- **Responsible for SFA, CRM development:** Developed and serviced over 5 SFA(sales force

automation)and CRM(Customer Relationship Management) projects for automobile dealers.

- Language: Java  
Web Technologies: JSP  
JavaScript and AJAX frameworks: DWR, Prototype, jQuery  
Enterprise Java architecture and frameworks: Spring, Struts, Hibernate, Toplink  
Build, release, and source code management: ant, maven, ivy, subversion  
Database: MS-SQL

## **CERTIFICATIONS (\*All Expired)**

Microsoft Certified Professional (MCP), Microsoft 2007

Microsoft Certified Database Administrator (MCDBA), Microsoft 2008

Oracle Database 10g Administrator Certified Professional (OCP), Oracle 2009

Docker Certified Associate, 2018

## **EDUCATION**

Kookmin University: BS in Computer Engineering School of 2010

Georgia Institute of Technology: MS in Computer Science, Specialization in Computational Perception and Robotics of 2020

## **TECHNICAL SKILLS**

Machine Learning, Reinforcement Learning, Robotics, Computer Vision

Programming Languages: C/C++(STL), F#, Closure, C#, Java, Javascript, Erlang, python, pico 8, Julia, GoLang

Computer graphics API: DirectX 9.0c

Knowledge of 3d Algorithms, 3D Math and computational geometry, Shadertoy, Ray tracing

Network programming experience in multithreaded software architecture

Enterprise Java architecture and frameworks: Spring, Struts, Hibernate, Toplink

Build, release, and source code management: ant, maven, ivy, subversion, CVS, mercurial, perforce, waf, Jenkins

JavaScript and AJAX frameworks: DWR, Prototype, jQuery

Web Technologies: JSP, ASP, AJAX, HTML, CSS, PHP, Django

Web/app. Servers: Tomcat, IIS, Oc4j

Databases: Oracle, MySQL, MSSQL

Operating Systems: Linux, Windows

Cloud Provider: VMWare Cloud, AWS

DevOps Tool: Docker, Kubernetes, Spinnaker, Helm, Zabbix, Jenkins, Rundeck, Zabbix, Grafana, Ansible, Terraform.

**Public Talk at Conference**

Microservices, development of game backend architecture for the ease of operations At NDC (2019), South Korea

**Awards**

2004 ACM ICPC Asia Regional – Bronze Medal - Seoul 9th Place

2009 ACM ICPC Asia Regional - Seoul 19th Place