# Juan C. **Fiorenzano**

SOFTWARE ENGINEER

*2307 W 60th St, Hialeah, Florida, 33016*

(305)-833-5169  |  jcfiorenzano23@gmail.com  |  jcfiorenzano

*"Make the change that you want to see in the world."*

## **Ski**lls

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|---|---|
| **Programming** | Python, C/C++, Scala, JAVA, Node.JS, OCaml, LaTeX |
| **Web** | Django with Python, Express with Node.JS, HTML5, LESS |
| **Languages** | Korean, English, Japanese, Chinese |

## **Exp**erience

### **Dofleini**                                                                  *La Habana, Cuba*

FULL STACK SOFTWARE DEVELOPER                                        *Aug. 2015 - Exp. Oct. 2016*

- Developed an application to draw accident sketches on real locations using Google Maps API and Javascript.
- Implemented a Security Service using C# to provide a way to control the authorization and authentication process for the company's solutions
- Implemented a plugin for angular that contains a view to manage permission through ACL
- Improved the design of user interfaces to get more responsive interfaces using Bootstrap and Material
- Implemented a service to keep track on changes on user's sensible information using C# and MongoDB.

### **Study Center of Computational Maths**                                       *La Habana, Cuba*

FULL STACK DEVELOPER, JUNIOR RESEARCHER                               *Mar. 2013 - Abr. 2013*

- Improved the data structures used in the simulations' render process resulting in an performance increase from 50 layers per simulation to 5000 layers per simulation, increasing the visualization quality aswell.
- Design, develop and document a javascript library to visualize and process 3D simulation on web browsers using WebGL.
- Increased the usability of the user interface developing a subsystem to handle map quality.
- Implemented frustum alogrithms to increase the render time of scene.
- Developed camera models using matrix algorithms

### **DATEC**                                                                     *La Habana, Cuba*

JAVA DEVELOPER, UNDERGRADUATE ENGINEER                               *Sep. 2011 - Mar. 2013*

- Implement solutions to masking data in PostgreSQL databases for the purpose of testing the performance of applications in an enterprise environment without compromising the confidentiality of data.
- Using Java for develop an application to migrate PostgreSQL database to NoSQL schemas for taking advantages of the new technology and make improvements in the group's old solutions, with this application the clients don't lose their data when execute a software update.
- Design a user interface with Java Swing for a Linux's service to control and analysis the process of data replication of PostgreSQL databases.

## **Edu**cation

### **University of Informatics Sciences**                                        *La Habana, Cuba*

B.S. IN COMPUTER SCIENCE AND ENGINEERING                             *2009 - 2014*

- Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

# Extracurricular Activity

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

*S.Korea*
*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)
Member

*S.Korea*
*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)
Core Member & President at 2013

*Pohang, S.Korea*
*Jun. 2010 - PRESENT*

- 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)
Member

*Pohang, S.Korea*
*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)
Member

*Pohang, S.Korea*
*Sep. 2013 - PRESENT*

- 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

| | | |
|---|---|---|
| 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* |
| 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

### 6th CodeEngn (Reverse Engineering Conference)
Presenter for <DEFCON 20th : The way to go to Las Vegas>

*Seoul, S.Korea*
*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>

*S.Korea*
*Sep. 2012*

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

# Writing

### A Guide for Developers in Start-up
FOUNDER & WRITER

*Facebook Page*
*Jan. 2015 - PRESENT*

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

### AhnLab
UNDERGRADUATE STUDENT REPORTER

*S.Korea*
*Oct. 2012 - Jul. 2013*

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

# Program Committees

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|---|---|---|
| 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* |