

Ryan Shah

SOFTWARE ENGINEER · COMPUTER SCIENCE AND MATHEMATICS MAJOR WITH PHYSICS MINOR · UNIVERSITY OF KENTUCKY

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Skills

DevOps AWS, Azure, Docker, Kubernetes, Jenkins, MySQL, PostgreSQL

Web Angular, HTML5, CSS, REST API, PHP, Node.js, SpringBoot

Programming C/C++, Python, JAVA, C#, Groovy, Ruby

Experience

Lexmark International, Inc.

Lexington, KY

SOFTWARE ENGINEER - ACCOUNT AND IDENTITY MANAGEMENT

May, 2020 - Present

- As part of the ACIM team, I was responsible for maintaining a variety of applications that facilitated account management, authentication, and identity federation for our cloud services.
- Facilitated the transition to Azure B2C identity management service from our in-house Ruby on Rails identity provider.
- Developed several customer facing Angular UI's and C# services and their deployment to our Kubernetes environment.
- Helped transition several services from AWS EKS to Azure AKS.

TECHNICAL ROTATION PROGRAM

Jul. 2018 - May, 2020

- During this program I spent 8 months on 3 different teams in the organization.
- On the Core Team, I helped to design and build fully automated CI/CD Jenkins pipelines to support the transition of our suite of dockerized microservices to Kubernetes from AWS ECS as well as maintain several Java libraries and SpringBoot services.
- On the Firmware Security Team, I worked to handle incoming critical CVE's in our firmware, as well as develop a service on our devices that enables automatic updating of critical SSL certificates for authentication with Lexmark and 3rd-party servers.
- On the Cloud Solutions Team, I created a prototype feature for our cloud services that would allow remote access to IoT devices in our system through the use of AzureIoT Device Streams.

PPQA TOOLS TEAM INTERN

Aug. 2016 - Jun. 2018

- Created a suite of python scripts that collect usage data from multiple data sources to detect supply failures and end of life.
- Built a C# desktop application, and companion command line tool, to analyze binary packet data.
- Designed a basic VR experience to manipulate a 3D model for showcases.
- Used machine learning to train a model that could identify print errors in QA tests.
- Developed a logging pipeline utilizing HyperLedger Fabric blockchain and ActiveMq.

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