

# Shivanshu Singh

THIRD YEAR UNDERGRADUATE · MECHANICAL ENGINEERING

Indian Institute of Technology, Kanpur

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## Education

### Indian Institute of Technology, Kanpur

B. TECH. IN MECHANICAL ENGINEERING

- CPI: 8.6

Kanpur, India

2014 - PRESENT

## Achievements

- 2014 **Finalist**, DEFCON 22nd CTF Hacking Competition World Final
- 2013 **Finalist**, DEFCON 21st CTF Hacking Competition World Final
- 2011 **Finalist**, DEFCON 19th CTF Hacking Competition World Final
- 2012 **6th Place**, SECUINSIDE Hacking Competition World Final

Las Vegas, U.S.A

Las Vegas, U.S.A

Las Vegas, U.S.A

Seoul, S.Korea

## Skills

**Finalist** DEFCON 22nd CTF Hacking Competition World Final

**Finalist** DEFCON 21st CTF Hacking Competition World Final

**Operating Systems** DEFCON 19th CTF Hacking Competition World Final

**6th Place** SECUINSIDE Hacking Competition World Final

## Projects

### PLAT Corp.

CO-FOUNDER & SOFTWARE ENGINEER

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Developed the Payments module which connected to major PG(Payment Gateway) companies in Korea.

Seoul, S.Korea

Jan. 2016 - PRESENT

### R.O.K Cyber Command, MND

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

- 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.

Seoul, S.Korea

Aug. 2014 - Apr. 2016

## Extracurricular Activity

### PoApper (Developers' Network of POSTECH)

CORE MEMBER & PRESIDENT AT 2013

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

Pohang, S.Korea

Jun. 2010 - PRESENT

### PLUS (Laboratory for UNIX Security in POSTECH)

MEMBER

- 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.

Pohang, S.Korea

Sep. 2010 - Oct. 2011

## Courses

Data Structure and algorithms  
Course C

Computer Systems and Security  
Course D\*