

# SYED UMAIR HASNAIN

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## EDUCATION

- May. 2017 **ILLINOIS INSTITUTE OF TECHNOLOGY**, Chicago, IL CGPA 4.00  
*Masters of Information Technology and Management, Major: Information Security*
- Oct. 2014 **NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY**, Islamabad, Pakistan  
*Bachelors of Engineering in Computer Engineering*

## WORK EXPERIENCE

- Jun. 2016 – Present **Epazz, Inc Chicago, IL**  
**SOFTWARE ENGINEER**
- Programmed Open Platforms Communication systems for process control using .NET.
  - Programmed cloud based single page applications using Angular JS and .NET.
  - Designed, programmed and published Andoird/iOS application using JAVA.
  - Designed RESTful webservice to authenticate, authorize and perform CRUD functions.
  - Maintained production servers on AWS, Active directory, IPS/IDS.
- Jun. 2013 – Oct. 2014 **Tranchulas – Islamabad, Pakistan**  
**MALWARE ANALYST AND DEVELOPER**
- Re-engineered remote management tools, using .NET and deployed over a network of 500 computers.
  - Designed Voice and SMS encryption android application using AES and Diffie-Hellman.
  - Designed malware classification software using machine learning algorithms.

## PROJECTS

- Oct. 2016 – May 2017 **IOT PEN-TESTING BTLE DEVICES** Illinois Tech, Chicago
- Set up a pen-testing environment on Kali Linux.
  - Used Wireshark, python, scappy, bluez to sniff, analyse traffic and launch attacks.
  - Exploited commercially available smartlocks (iBluLock, Okidokey)
  - Presenting paper at ForenSecure 2017
- Jan. 2016 – April 2016 **IOT SMART GAS LEAKAGE DETECTION** Illinois Tech, Chicago
- Designed Xbee active mesh network to correlate to physical building
  - Used Arduino as a base station to collect data and upload to a web server
  - Designed web server to give real time information about sensor values and GPS location, and alert user in case of an emergency.

## COMMUNITY INVOLVEMENT & RECOGNISED ACHIEVEMENTS

- 2013 Convener EME Olympiad'13
- National level event with over 2500 participants.
  - Presided over 60 competitions and social events.
  - Managed one million Rupees budget.
- 2012 GINI IEEE EME COLLEGE Chapter
- 2012 - 2014 Departmental Hockey Team

## SKILLS

- **LANGUAGES:** C#, C++, ASP.net, JAVA, JavaScript, PHP, HTML, VHDL.
  - **ETHICAL HACKING:** MetaSploit, WireShark, Nmap, Digital Forensic Framework.
  - **PLATFORMS:** .NET, AngularJS, AWS, JUNIT.
  - **MICROSOFT:** MS SQL Server, Visio, Office.
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