

Mukesh Kumar Pilaniya

Final Year Postgraduate

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Academic Qualifications

Year	Degree/Certificate	Institute	Percentage
2019-21 - Present	M.Tech (CSE)	International Institute of Information Technology, Bangalore	3.4/4(CGPA)
2014-18	B.Tech (CSE)	University of Allahabad, Allahabad	65%
2012-13	XII	Prince Senior Secondary School Sikar, Rajasthan	85%
2010-11	X	Prince Senior Secondary School Sikar, Rajasthan	92%

Achievements

- Secured **All India Rank 627** in GATE 2019. (2019)
- Found a Bug in **Dropbox** website and Dropbox Android Application that led to **privilege escalation** and **Authentication bypass (SSO)** and Awarded with **3775\$** for privilege escalation, **4775\$** for Authentication bypass. (2017)
- Found bugs in **Instacart** website that led to Cross Site Request Forgery (CSRF), Cross Site Scripting (XSS) and Cross Resource Origin Sharing (CORS) and Awarded with **200\$** (2017)
- Among the top 0.3% of the 1.5 million applicants in JEE Mains 2013. (2013)
- Secured **Rank 4** in class X at district level. (2011)

Key Projects

- Classroom management System** Mar'20 -Apr'20
Mentor: Prof. Thangaraju B, Department of Computer Science, IIITB
 - Implemented classroom management portal where users (Professors,SAC members,Committees,TAs) can search available classrooms according to their requirements.
 - The Application is developed using **spring boot framework**, java is used for back-end and **JSP, Bootstrap** is used for front-end development.
 - Successfully implemented CI/CD pipeline using Jenkins, Docker, Rundeck and ELK stack.
- Meltdown Attack** Jan'20 -Apr'20
Mentor: Prof. Thangaraju B, Department of Computer Science, IIITB
 - Aim of this project is to exploit Intel processor vulnerability to read **kernel memory** from **user space**.
 - Learned and worked on problems related to **Out-Of-Order execution** and **Cache Side Channel attack**.
 - Successfully analyzed the performance affect before and after implementing the **KAISER** patch.
- Mini Operating System** Jan'18 -May'18
Mentor: Prof.Rajiv Ranjan Tewari, Department of Computer Science, Allahabad University
 - All the Linux libraries are compiled manually and successfully integrated with kernel version 4.10.1
 - Successfully Integrated grub boot loader and Bash shell, Gentoo is used as Host OS
- Seller Portal** Jan'18 -May'18
Mentor: Prof.Rajiv Ranjan Tewari, Department of Computer Science, Allahabad University
 - Developed a center seller portal for all the sellers, where a sellers can register their products and different e-commerce companies can choose their products for selling.
 - Developed using spring boot framework, java is used for back-end and Angular, Bootstrap is used for front-end.
- Other Projects:-** <https://mukeshpilaniya.github.io/blog/>

Technical Skills

- Programming Languages:** C,C++, Java, SQL
- Web Development:** HTML, CSS, Spring Framework,Angular Framework,Web Application Security
- Applications:** Eclipse, Android Studio, Adobe Photoshop, VMware, Docker, IntelliJ, MS office.
- Operating Systems:** Linux, Windows, Android.

Relevant Courses

Data Structure and Algorithms	Databases Management System
Operating System	Software Production Engineering
Computer Network	Cyber Security

Positions of Responsibility

- Teaching Assistantship — IIIT Bangalore** Aug'19 -Mar'20
 - Operating System (under Prof. Thangaraju B)
- Aikyam Committee Member— IIIT Bangalore**
 - Social Wing of IIIT Bangalore

Interest

- Learning about new technology, languages, cricket and coding.