

PSG COLLEGE OF TECHNOLOGY

Computer Science and Engineering Association



Presents

EtherX Final Report

20 SEP 2024 - 22 SEP 2024

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EtherX' 24, a 3 day event was held on September 20,21, and 22,2024 under the theme of Fintech Cybersecurity. This event was held in the focus of raising awareness about the crucial role of cybersecurity in the Fintech industry.

The workshop instilled participants with the fundamental concepts of Fintech cybersecurity such as Data encryption, risk management and assessments, and incident response and disaster recovery. This allowed participants to gain an overview on how to utilize these concepts in the upcoming CTFs and case study events planned.

Day 1:

Day 1 began on 20th September, with a guest lecture by Mr.Abhinav Kishore G V, a DevSecOps Engineer at Sailpoint. Around 51 participants attended the above workshop conducted over DevSecOps and and its critical role in cybersecurity.

Mr.Abhinav Kishore started his session with an overview on DevOps and DevSecOps by highlighting the primary differences between them. He proceeded to explain that DevOps combines "Development" and "Operations" to streamline the software development process, while DevSecOps is meant to integrate security into each phase of the DevOps pipeline.







Throughout the session, Kishore also highlighted the essential skills needed to become a DevSecOps engineer, such as knowledge in programming, DevOps tools (like Jenkins, Docker, and Kubernetes), application security, and cloud platforms. He stressed the importance of continuous learning in this field due to the evolving security threats.

The workshop concluded with a demo of a sample Python project illustrating DevSecOps in action, followed by a discussion on career paths in the field. He also emphasized certifications like Certified DevSecOps Professional (CDP) and Certified DevSecOps Leader (CDL).

The event, although starting off a little slow, with the reserved audience at hand, eventually turned into an interactive session, with many participants raising doubts and simultaneously answering Mr.Abhinav Kishore's questions.



Overall, the session provided a conducive learning experience to the participants over how integrating security within the DevOps lifecycle is crucial in today's fast-paced development environment. It also equipped participants with the knowledge to pursue a career in this evolving field.

Day 2:

CTF Workshop by Mr. Dhanush Gowdhaman



Day 2 of EtherX commenced on the 21st of September with a workshop introducing Capture the Flag (CTF), a popular cybersecurity-based hackathon. It was led by Mr. Dhanush Gowdhaman, software engineer at IBM, over an online meet, where participants explored various CTF platforms like Hack The Box, picoCTF, and TryHackMe.

Mr. Dhanush shared his personal experiences and technical background before diving into the overview of CTF hackathons. The workshop emphasized the

importance of CTF contests in the field of cybersecurity. He explained how these challenges simulate real-world situations, requiring participants to detect and exploit vulnerabilities. Mr. Dhanush also highlighted how CTFs promote teamwork by simulating the defense of assets and systems against modern cyber threats.

Participants created accounts on these platforms to apply their newfound knowledge. The workshop successfully stressed the role of CTFs in honing cybersecurity skills, offering hands-on experience in hacking techniques, cryptography, and digital forensics.





This comprehensive introduction was designed to prepare participants for a case study activity later in the day.

Despite being on a Saturday morning, the workshop had an impressive turnout of 58 participants from various years and departments, reflecting high interest in cybersecurity. Feedback from attendees confirmed the workshop's usefulness and its value in learning cybersecurity concepts.

OSINT Workshop by Mehul Dinesh and Richard Samuel

Following the online session on CTFs, a second workshop on Open Source Intelligence (OSINT) was conducted by Mehul Dinesh and Richard Samuel. This



session aimed to provide participants with a foundational understanding of OSINT and its crucial role in cybersecurity, threat detection, and investigation.







The workshop began with an introduction to the OSINT Framework, a structured approach that benefits security researchers, government agencies, and cybersecurity professionals. The speakers covered various OSINT techniques, starting with accessing public records and business intelligence. They emphasized the Ministry of Corporate Affairs as a key resource for corporate filings, financial statements, and regulatory compliance data. Techniques to assess risk and competitive intelligence were discussed, including how to detect shell companies, analyze legal cases, and monitor competitor filings.

The focus then shifted to stock market intelligence, using the National Stock Exchange (NSE) as an example. Attendees were taught how to access financial data, monitor stock performance, and analyze historical stock data to gain insights into company behavior and market sentiment.

More advanced OSINT techniques were introduced, including Google Dorking and LinkedIn stalking. Google Dorking was explained as using advanced search operators to find sensitive information on websites, while LinkedIn stalking was discussed as a method for gathering information from public profiles. The speakers also cautioned participants about the risks of these techniques, especially

The workshop concluded with a demonstration of SQL injection, showing how specific SQL commands could manipulate database queries and potentially grant unauthorized access.

regarding phishing and social engineering.

Initially, the audience was reserved, but the session became increasingly interactive as participants showed interest in various OSINT techniques, raising questions that the speakers addressed in real-time. The relaxed environment encouraged social interaction between participants and members of The Eye, creating a welcoming atmosphere.

Overall, the workshop was a success, giving participants a solid foundation in OSINT, introducing them to various tools and techniques, while also promoting ethical intelligence gathering practices.

Case Study Event:

The workshops eventually made leeway to the much anticipated activity of the event, the Case Study. The cybersecurity



workshop included an interactive case study called "The Death of a Fintech Visionary". The activity was designed to simulate real-world investigative techniques and Open Source Intelligence (OSINT) practices used in cybersecurity in order to provide participants with practical experience in hacking, problem-solving, and critical thinking.

The case study revolved around the death of Rajiv Mehta, the CEO of FinSecure, found floating in his penthouse pool. Participants had to uncover the truth by utilizing various digital resources and hacking techniques to piece together evidence that led to the result of the investigation.









Through the completion of this case study, students enhanced their understanding of OSINT by gaining insights from publicly available resources and ethical hacking by understanding the implications of hacking into secure systems.

For the final submission, participants were required to compile a case report detailing their investigative process, findings and the final identified culprit. This included evidence and supporting documents necessary to conclude the case effectively.

The workshop not only sharpened participants' cybersecurity skills but also emphasized the critical importance of investigation and ethical considerations in this field. Furthermore, an interactive activity like such piqued the participants' interest in cybersecurity due to the engaging nature of the case study. It also allowed them to interact with other peers and develop their teamwork and communication skills.

Overall, the workshop was a success, and it fostered a deeper understanding of cybersecurity practices within the context of real-world scenarios.

Day 3:

Day 3 of the workshop was dedicated to the much-anticipated Speedrun Hackathon. The problem statements were released at 8:30 AM, giving participants a brief moment to strategize before the hackathon officially kicked off at 9:00 AM. Teams quickly dived into solving the challenging problems, displaying their coding skills and creativity.



hackathon continued until 1:00 PM, when participants took a well-deserved lunch break. After a brief pause, results were announced at 3:00 PM.



The first place was secured by Sanjay B (21T234) and Ardharieswaraa (24I461), followed closely by Anantha Vijay (20PC06) and Kesav R (20PC19) in second place. The third place went to the team of Chandru (24Z314), Santhosh Kumar (24Z361), and Santhosh (24Z360).

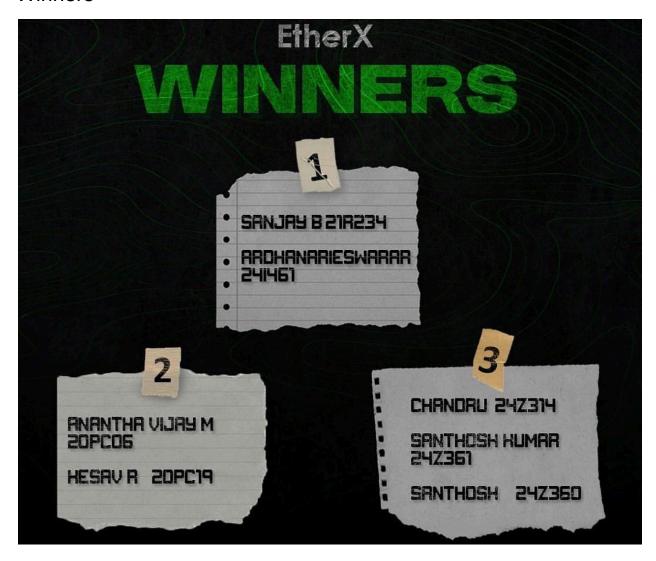
The link for <u>Popular hackathon platforms</u> was shared on the <u>Eye website</u>.

The energy throughout the event was high with a remarkable competitive atmosphere

that brought out the best in everyone, making the hackathon a great success.



Winners





ETHERX 2024 Attendance

Name	Full Name 🔻	Department: 🔻	Roll Number 🔻	Phone Numt 🔻	ATTENDANC =	ATTENDANCE Da 🖶	Winner 🔻	Honorable Menti 🔻
aaditya	Aaditya Rengarajan	CSE	21Z202	9444511430				
Aarnav Nanda K	Aarnav Nanda Kumar	CSE	24Z301	9585110336				
Aashiq Elahi R	Aashiq Elahi R	BE CSE G1	23z203	8807871214	\checkmark	\checkmark		
Abhinav Ashok F	Abhinav Ashok Pillai	BE ECE G1	24L101	6369635950	\checkmark			
Abinaya S	Abinaya S	BE CSE (AI & ML)	22N202	9788719767				
Abipriya.K	Abipriya.K	CSE	D24Z270	9345631066				
Adersh Sanjeev	Adersh Sanjeec	Cse g2	24Z302	9945609646				
Adhitya	Adhitya R	BE ECE	23L203	7358144282				
agnesh K K	Agnesh K K	CSE	24Z206	9445500000				
Ahamed Shalma	H Ahamed Shalman	Computer science	24Z207	6369551733				
Ahilesh Roy B J	AHILESH ROY B J	BE CSE	23z206	9043769918	\checkmark			
Akshatha PR	AKSHATHA PR	BE CSE-AIML	24N201	9080332483	\checkmark	\checkmark		
Akshaya V	Akshaya Venkatesan	CSE (Al and ML)	24N202	9944977226		\checkmark		
Ampareeshan M	Ampareeshan M B	Applied Mathem	20PC02	9841337480				
ANANDHAKUMA	ANANDHAKUMAR K	B.E, CIVIL	23C101	9500854442				
Anantha Vijay M	Anantha Vijay M	Applied Mathem	20PC06	9487412093		\checkmark	\checkmark	
archana.k	Archana.k	Btech IT	23i307	9090070798	\checkmark	\checkmark		
ARDHANARIESW	ARDHANARIESWARAR	B . TECH IT	241461	6374887332		\checkmark	\checkmark	
ARRVINDH PK	ARRVINDH PERIYAR KH	CSE	D24Z209	9487445716	\checkmark	~		
Arun Prasath	ARUN PRASATH S	Applied Mathem	20PC07	9487233722				
Arunmozhivarm	Arunmozhivarman M	CSE	23z211	9344683927				
Ashwadh J	Ashwadh	Ece g2	24L207	9003811574	\checkmark			
ashwath	Ashwath Prabhu	BE CSE	23Z309	8754592239				
Ashwin Shibu	Ashwin Tom Shibu	BE CSE G1	237212	9863414355	\checkmark	$\overline{\mathbf{v}}$		
ATHILAKSHMI V	ATHILAKSHMI V	CSE AI&ML	23N208	9489880823				
BALAJI K	BALAJI K	ECE	24L105	9894574492				
Bharaghave Shri	Bharaghave shri C.G	BTech IT	241308	9600561075	\checkmark	\checkmark		
Bharathi	Bharathi R	BE.CSE(AIML)	23N210	8489782283				
BOOPATHI P	BOOPATHI P	BE CSE G2	24Z312	9080016364				
Catherine Mary	Catherine Mary J	CSE (AI&ML)	22N211	9952560548				



Carbarina Mari	Contractor Many !	CCE (AIR MIL)	228/244	0053560540				
	Catherine Mary J	CSE (AI&ML)	22N211	9952560548				
-	Chaithanya Kali Sekar	Cse	24Z313	8088706322				
Chandhru	Chandhru.R	Be Cse G2	24Z314	9150357179				
Chrithika	Chrithika	CSE G1	46					
Daniel Elnatan	Daniel Elnatan	Mechanical eng		9445929464				
Darshan P	Darshan P	CSE	24Z216	9488226615		<u>~</u>		
DARSHAN V G	DARSHAN V G	BE CSE (AI&ML)		9790521129				
Deebika N	Deebika N	CSE AIML	23N214	9600391186				
Deepa Shree	K.Deepa Shree	BE CSE(AI&ML)		9384472009	\checkmark	~		~
Dharaneesh	DHARANEESH S.L	BE CSE(G1)	24Z218	9360231541	\checkmark			
	DHARANEESH.U	BE,CSE(G2)	24Z318	9361405507				
Dharshini.V	Dharshini V	BE CSE	23Z318	9042634592	~	~		
Ganesh Karthic	B.Ganesh Karthic	CSE	24Z310	6385161264				
Ganesh Kumar A	Ganesh Kumar A	CSE AIML	22N217	9655856148	П	П	П	П
	Gowtham P	CSE	247225	8015349850	~	~	ñ	ň
Gowtham v	Gowtham V	CSE	23z226	9488375000	ā			
Hari Prakkash S	Hari prakkash S	CSE G1	24Z226	9361646627				
	HARIHARAN D	B. E. Civil Engine	23C110	6379066988				
HARIKESAVA V B		BE-CSE(AI&ML)		9750056748	~	- i	n	- i
Harini P	Harini P	Computer Science	237227	6366203232	\overline{v}	~	$\overline{\Box}$	
Haroon	Haroon Surkhi	CSE AIML	24N267	7418678011		- i	- i	- i
Harsathaa Ragur	Harsathaa Ragunathan	Computer science	23bcv015	7397689830				
	Harshitha G	CSE(Al and ML)	-	6383444071	ī	~	ī	
Herwin	Herwinkumar	Cse(aiml)	24N216	6383365116	~	\overline{A}	ñ	ī
J Chitteshdharsh	Chitteshdharshan	Cs(ai and ml)	24N206	8870188995	\overline{v}			
JaaiAshwath R R	JaaiAshwath R R	BE Production Er	24P434	9043786866	~	$\overline{\mathbf{v}}$		\overline{v}
Jafer Sathik B	JAFER SATHIK B	INFORMATION T	241464	9487585579		ō		
Jayasuriya J	JayaSuriya J	Cse(AIML)	24N218	8248811883	✓			
Jayyanth	Jayyanth K B	CSE	24Z231	9789688569	✓			
Jeevananthan V		ECE	24L114	8925787504				
Jeryl Joshua	Jeryl Joshua	BE CSE	24Z328	7695969124				
Jeyaprakash J	Jeyaprakash J	BE CSE(G1)	237229	6369428330	\overline{V}	$\overline{\mathbf{v}}$		
Jhanvi K.	Jhanvi k	Cse (ai/ml)	24N219	9.19E+11	\checkmark			
John Samuel J	John Samuel J	BSc Information	22107094	7845314345				
Karthik Saravana	Karthik Saravanan	Cse	23z360	8056936690	\checkmark	~		
Karun	S Karun Vikhash	CSE	21z247	Same as calls				
KEERTHANA R	KEERTHANA R	BE BIOMEDICAL	23D215	8610728887	\checkmark	\checkmark		
Kesav	Kesav	Msc cyber secur	20pc19	6374090680		\checkmark	\checkmark	
Khavin Nagaraja	Khavin Nagarajan	CSE G1	24Z235	7397762625				
Khavishkha K	Khavishkha K	CSE G2	22Z335	8778459749				
Kishore.K	KISHORE.K	COMPUTER SCIE	24Z336	9360206442		~		
Krishna Kumar R	Krishna Kumar R	CSE	24Z337	7604889338	\checkmark	~		
Lavanya G	LAVANYA G	Information tech	231232	9342268507	\checkmark			
Lekshika	R Lekshika	Cse(ai/MI)	24N141	8971337268	✓			



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Logavarshini K	Logavarshini K	BE CSE AI ML	23N224	6380031439			
Logesh Kumar	Logesh Kumar J	Electronics and	23L236	9944376155			
Lokesh N	Lokesh N	Cse (ai&ml)	24N225	7339056984	~		
loki	Lohith	BE CSE (AI & ML	22N228	9488125100			
Matheshwaran	Matheshwaran	CSE(AI&ML)	23n227	9360802570	\checkmark		
Mehul	22N232	CSE	22N232	8608715000			
Mugilan Y	Mugilan Y	CSE(AI&ML)	23N229	7025803015			
Murugan Selvan	Murugan Selvam	IT G2	23i338	8778413373	\checkmark	\checkmark	
Natesh M	Natesh M	Applied Science	238034	9.16E+11			
Nathan Maharaj	Nathan Maharaj Kharw	CSE (AI ML)	24N232	7418490676	\checkmark	\checkmark	
NavaneethaKrish	Navaneetha Krishnan K	cse	21z233	9.19E+11			
Navasri	Navasri.R.S.	BE.CSE - G1	240Z240	9342087420			
Navilesh S	Navilesh S	BE cse AIML	24N233	7448939999	\checkmark	\checkmark	
Navin Kumar	Navinkumar R	ECE	D24L122	7010038998			
Nirmal Kumar K	Nirmal Kumar K	CSE	24Z464	9500575064		\checkmark	\checkmark
Nishwanth	Nishwanth B	BTech IT G-2	241333	8610643774			
Nithin R	Nithin R	CSE	24Z243	8248172268	\checkmark	\checkmark	
Nithishkumar M	Nithishkumar M	ECE	24L240	9363317805			
Nitish Balamural	Nitish Balamurali Mune	Computer science	23z243	7418412700			
Prajit	Prajit R	BE CSE	24Z249	9944506891			
PRANEETHAA K	K C Praneethaa	BE CSE	217223	9361615936			
Praveen V	Praveen V	ECE G1	24L130	9342845875			
Pravin Ramanaa	Pravin Ramanaa S	CSE	24Z255	9952144087	\checkmark	\checkmark	
Pravinthaa Sree	Pravinthaa Sree A	CSE (1st year)	349	9943340238			
Pravith N	Pravith N	CSE AI&ML	23N237	9843243610			
Preethi Reena S	Preethi Reena S	BE CSE	23Z248	9360278587			
Prithiv Venkates	Prithiv Venkateswaran	ECE	24L244	8925363388			
Priya	Priya K	BE CSE G1	24Z258	8870205854			
Ragul Manikand	K.Ragul Manikandan	B.E ECE	24L307	9486784929			
Raja Lakshmana	Raja Lakshmanan	BE ECE	24L247	7639077992			
Rakesh.M	Rakesh.M	B.tech IT	241346	9677394272			



DECLUMA DELUM	DECUMARTINAL C K	DE CSE(CA)	227252	0004855003				
	RECHIVARTHINI. S. K	BE-CSE(G1)	237252	9994856903				
	Richard Samuel D	CSE(AI&ML)	22N242	9384559645	\checkmark			
	Richitha Elango	BE Cse G1	23Z253	6382079913	\checkmark			
RIDHU SHREE	Ridhu Shree viswanatha		23z254	9360842677				
Rishikesh S	RISHIKESH S	ECE G1	24L137	7806808701	✓			
RITHAN PRANAC	RITHAN PRANAOV R	CSE	24Z261	9524723333	✓	\checkmark		
Rithanya S	RITHANYA S	BE CSE G1	23Z255	9842858083				
Rithik R	Rithik Rajasekaran kirut	B.E.CSE(G2)	23Z359	8489189591				
S Sakthi	S Sakthi	Civil	23C125	9933284260				
S.Jayasurya	Jayasurya.S	BE CSE(G2)	24Z327	8778608484				
Sahishnuram S	Sahishnuram S	Computer Science	22N244	6383066240				
Sai Karthi Balaji	Sai Karthi Balaji G	BE CSE(AI &ML)	23N243	9842294606				
Sakthi Venkkat	Sakthi Venkkat	BE-CSE	24Z358	7305844696				
SANGAVI K	SANGAVI K	Information Tech	231351	8220214252	\checkmark	\checkmark		
Sanjay	Sanjay U	ECE	24L141	9487594798	\checkmark			
SANJAY B	Sanjay B	Robotics and Au	21R234	8838970919	\checkmark	\checkmark	\checkmark	
SANJITH S	SANJITH.S	COMPUTER SCIE	24Z359	9677943172		\checkmark		
Santhosh Kumar	Santhosh kumar m	Cse g2	24Z361	7358239594		\checkmark	\checkmark	
SANTHOSH S	SANTHOSH S	Cse	24Z360	9894264424		\checkmark	\checkmark	
saran	SARAN M	CSE(AIML)	24N435	8148599787				
Satwik K	Satwik k	Cse	24Z271	8610760576		\checkmark		
Saumiyaa Sri V L	Saumiyaa Sri V L	BE CSE G1	23z261	8056567914	\checkmark	\checkmark		
Shalini V	Shalini V	Information Tech	23i368	9606678651				
SHARVESH S	S SHARVESH	BE-CSE	24Z355	9500206665				
Shashwath	S Shashwath	BE CSE G2	23z362	9845677934				
Shiraya Chandra	Shiraya Chandra	CSE AIML	23n250	90427 84263	\checkmark	$\overline{\mathbf{v}}$		
Shrivatsavan S	Shrivatsavan S	CSE	21z354	7618758777				
Shruthinaya Sri S	Shruthinaya Sri S	BE CSE AI/ ML	23N251	8072678585				
Shunmuga Eswa	Shunmuga Eswar.V	BE ECE	24L263	8681922333	~	$\overline{\mathbf{v}}$		
SibiAdithya Vela	Sibi Adithya V	IT	22i366	8870599913				
Sibidev R R	Sibidev R R	CSE	23Z367	9344585608			\overline{v}	



Sneha P	Sneha P	CSE	D24Z273	9751969477	\checkmark		
Soorya Subrama	Soorya Subramani	CSE	217258	7806994582			
SP Visalakshi	SP Visalakshi	Electronics and	23L151	8903810098	~	~	
Srija c	Srija C	BTECH INFORMA	23i363	6382812567			
Srimathikalpana	Srimathikalpana T	B. E. CSE AI&ML	23N254	8122966128			
Srinithi Srinivasa	SRINITHI SRINIVASAN	BE CSE	23Z271	9597556824		\checkmark	
SRUTHI A	SRUTHI A	CSE	23z272	6381958292			
Sumithra M	Sumithra M	BE CSE(G2)	23Z375	8682024601			
Sunil Sanjay S	Sunil Sanjay S	Electronics and (23L267	9360041571			
Swadhitha SP	Swadhitha SP	BE CSE(AI&ML)	23N258	8610098060	~		
Swetha T	Swetha T	BTech IT (G2)	231366	8778614708			
Tejas R P	Tejas R P	CSE (AIML)	24N258	9952503399			
THARUNKUMAR	THARUNKUMAR S S	Civil	23C130	9444865559			
Thejas Achyuth	Thejas Achyuth J	Cse	24Z372	9787912127			
Thejashri N	Thejashri N	CSE AIML	23N262	9842119832	~		
Thenmozhi S M	Thenmozhi S M	Computer Science	222369	6379976421			
Vati Singh	Vati Singh	Be civil	23C132	9474201927			
VIKAAS K S	VIKAAS K S	Information Tech	23107131	9943719584			
Vishnu S	VISHNU S	BE CSE G1	23Z277	9952606897			
Vishwanath K.C	K.C.VISHWANATH	CSE G2	24Z329	9840182166			
Viveha	Viveha S	CSE AIML	23n265	9080730083	\checkmark	$\overline{\mathbf{v}}$	
Yeshwanth S	Yeshwanth S	Cse-(AIML)	23N266	6380006845			
Yuva Shree G	Yuva shree G	CSE G2	24Z379	514078			
Sowmya P Naga	Sowmya P Nagarajan	IT	241358	9600957541	~	\checkmark	
Sanjay	Sanjay	IT	24 411		~		
rohith	rohith		23n242		\checkmark		
aadish	aadish		23m202		~	\checkmark	
rithik krishna	rithik krishna		24m433			\checkmark	
muthupriya	muthupriya		24n231		\checkmark		
Sunilkumar	Sunilkumar		24Z275			\checkmark	
Harsha	Harsha		24z228	9597727512			
prashanth	prashanth		24z348				
Navilesh	Navilesh		24n230			\leq	
vishal	vishal		24N264			✓	