

Navid Fazle Rabbi

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Cybersecurity has long been a source of fascination for me. Years of experience in the industry have given me a thorough grasp of how to detect and exploit flaws in poorly built systems. I have extensive experience performing vulnerability assessments and penetration testing on web, API, and mobile apps. My interest in cybersecurity is focused on Offensive Security, which includes vulnerability discovery, exploit building, and tool design for penetration testing. My ultimate ambition is to become a prominent specialist in computer security.

Work Experience

bKash Limited	Senior Engineer, Offensive Security Research	May '23 – Present
	Engineer, Offensive Security & Compliance	April '21 – April '23

bKash is one of the Largest Mobile Financial Service in the world. My key responsibilities include: **Leading Front End Security Assessment Team**, responsible for conducting security assessment on Web Applications, APIs and Mobile Applications. Conducting **Security Assessment for the Web Applications, APIs, and Mobile Applications** managed, maintained, and used by bKash. **Developing Exploits** for existing and newly found vulnerabilities in light of the bKash system and environment. **Reverse Engineering** bKash used software and mobile applications. **Malware Programming and Analysis** for Research and Development. Conducting **Red Team Operations** to ensure proper Cyber Resilience against APTs. **Testing Cloud and Scalable Infrastructures** for vulnerabilities and ensuring proper **Hardening** against different benchmarks. **Source Code Analysis and Sanitization**.

Education Background

B. Sc. Engg Electrical and Electronic Engineering Islamic University of Technology	C. G. P. A. 3.10
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Admission Rank 70 | Recipient of OIC Scholarship
Noteworthy Course-works: Communication Engineering, Microprocessor & Assembly Language, Wireless Communication, Micro-controller Based System Design, Data Communication & Networking, Embedded Systems, Advanced Communication Techniques.

Research Projects

- **Security, Malware Analysis, Machine Learning** – Advanced Malware Analysis & Antivirus Tool using Python (*Currently Working*)
- **Security, Malware Analysis, Code Attribution** – Advanced analysis of codes, attribution analysis and malicious intent identification (*Currently Working*)
- **DevSecOps, VA** – Integration of Burp Suite Enterprise with CI/CD Pipeline (Jenkins) & Code Sanitization (SonarQube)
- **API, Attack Surface** – Fraud Replication to impersonate Fraud Cases and increasing the understanding of the attack-vector.
- **Web Application, Deep Learning, Network** – Face Detecting Surveillance System (*Currently Working*)

Undergraduate Projects

- RaspberryPi Security Camera Network (*4th Semester Project*)
- Design of Butterworth and Chebyshev Filter using MATLAB and Hardware Implementation. (*8th Semester Project*)
- Speech Recognition using MATLAB (*7th Semester Project*)
- Prospects of Energy Harvesting in Three Different Sectors (Cycling, Running, Sewing Machines) in Bangladesh (*6th Semester Project*)
- Design and Hardware Implementation of Calculator using Basic Logic Circuits (*2nd Semester Project*)

Research Interest

<ul style="list-style-type: none">• Offensive Security• Malware Analysis & Development• Exploit Development	<ul style="list-style-type: none">• Computer Networks• Mathematics• Cryptography	<ul style="list-style-type: none">• Reverse Engineering• Web Application Security• Mobile Application Security
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Exploits & Tools Developed

CrossDomain XML Exploit	Exploit	Action Script, Python	Exploit Document
dl_bfb (Authentication Brute-force)	Tool	Python	Link
Knock! Knock! (Subdomain & Directory Enumerator)	Tool	Python	Link

Cookie Monster (Automated Cookie Modifier)	Tool	Python, JS	Link
NTLM_Spray (Password Sprayer)	Tool	Python	Link

Others: Network & Port Scanner, Hash Cracker, Keylogger, SSH Brute-Forcing, Vulnerable JS Identifier, [More](#)

Preprints

- [Design, Implementation, Comparison, and Performance analysis between Analog Butterworth and Chebyshev-I Low Pass Filter Using Approximation, Python and Proteus](#) (NF Rabbi - arXiv preprint arXiv:2102.09048, 2021 - arxiv.org)

Undergraduate Thesis

- [Design and Implementation of Server Based Position and Angle Measurement and Control of DC Motor](#)

Skills

Language	C, Python, JavaScript, Bash, SQL, Assembly Language, Dart, Rust, PHP, Go
Software	BurpSuite, Metasploit, Netsparker, Postman, Wireshark, C IDEs, Python IDEs, Browser Consoles, and Other different Penetration Testing tools and software

Notable Certifications

- **Certified Ethical Hacker (CEH)** | EC-Council
- **Certified in Cybersecurity (CC)** | (ISC)²
- **Certified Payment-Card Industry Security Implementer (CPISI)** | SISA
- **Introduction to Cybersecurity Tools & Cyber Attacks; Cybersecurity Roles, Processes & Operating System Security; Cybersecurity Compliance Framework & System Administration** | Coursera – IBM
- **CS50's Understanding Technology** | HarvardX
- **CS50's Introduction to Computer Science** | HarvardX
- **CS50's Introduction to Programming with Python** | HarvardX
- **OPSWAT Network Security Associate** | OPSWAT Academy

Industrial Attachments

Ghorashal Thermal Power Plant (GTPP) <i>(Power Engineering)</i>	Maintenance of gas turbine generators, cooling subsystem, safety system, and role of Transformers at the generation side.
Bangladesh Telecommunication Company Limited (BTCL) <i>(Telecommunication)</i>	Different switching equipment, satellite communication, submarine cable network, etc.
Bangladesh Atomic Energy Commission <i>(Nuclear & Electronics)</i>	Nuclear research reactor TRIGA-different components and some use of this reactor.

Scholarships and Awards

- Continuously attempting CTFs in **TryHackMe**, **HackTheBox**, **picoCTF** and many other competitive CTF Playgrounds.
 - Handle: [DL28](#); Team: [IUT Genesis](#)
- **Financial Institution CyberDrill 2021** | Country Rank **2** | bKash Ltd.
- **Financial Institution CyberDrill 2022** | Country Rank **3** | bKash Ltd.
- **OIC Scholarship** | Rank 70 (IUT Admission Test)
- **International Assessment for International Schools | University of New South Wales, Australia**
 - Distinction: Computer Skills, Science | Credit: Mathematics

Extra-Curricular Experience

- **IEEE IUT Student Branch** | **Chair** (2019) | Lead Technical Officer (2018) | Webmaster (2017)
- **IUT Career & Business Society** | **President** (2019) | General Secretary (2018) | Creative Director (2017)
- **Esonance** (Annual Departmental Electrical Fest) | **President** (2019) | Web Developer (2017-2018)