

KEVAL NITIN BAVISI

Boston, MA 02119 | bavisi.ke@northeastern.edu | +1 (857) 424-8764 | [LinkedIn](#) | [GitHub](#)

Looking for Co-op in Digital Forensics & Cybersecurity domain

EDUCATION

Northeastern University's Khoury College of Computer Sciences, Boston, USA Sep 2023 – Dec 2025
Enrolled in Graduate Program for Master of Science in Cybersecurity
CGPA - 3.83/4
Key Courses – Cyberspace Technology & Applications, Decision Making in Critical Infrastructure

DJ Sanghvi College of Engineering, Mumbai, India
Attained a Bachelor's of Technology in Electronics Engineering with First Class Feb 2021 – May 2023
Key Courses – Python, DSA, Operating Systems, AIML, Cloud Computing, Cybersecurity & Laws CGPA - 8.55/10

Shri Bhagubhai Mafatlal Polytechnic, Mumbai, India Aug 2017 – Oct 2020
Secured a Diploma in Digital Electronics with First Class with Distinction CGPA – 8.59/10
Key Courses – C++, IoT Networking, Java, Computer Networks, Advances Processors, PC Architecture

TECHNICAL SKILLS

- Programming Languages - Python, C, C#, Java, SQL | Databases - MySQL, MongoDB
- Development – Eclipse, VS Code | OS Familiarity – Linux, Kali Linux, Ubuntu, Windows
- Other Technologies - Tableau, Wireshark, IoT TwinMaker, Cisco Packet Tracer, Oracle VM VirtualBox, GuruX DLMS, ESP-IDF, Kali Linux, Internet of Things (IoT), AVR Studio, SCILAB, BEEF Framework, Metasploit, Brute Force attack, Hydra, Model Based Risk Analysis (MBRA)
- Skills Acquired via Courses – Cybersecurity, Network Security, Security risk assessment, Vulnerability Assessment, Incident Response, INFOSEC, Cryptography, Threat Analysis, Network Defence, Malware Analysis, Cyber Attacks, digital forensics lab, eDiscovery, data collection, extraction, processing, hosting, Forensic Technology

PROFESSIONAL EXPERIENCE

Siemens Energy., Mumbai, India. | Vulnerability Assessment Engineer - Cybersecurity May 2022 – Apr 2023

- Executed research with Siemens Energy for India, reducing cyber risk by 30%, securing critical infrastructure
- Developed AMI smart meter testing framework, bolstering security & reducing vulnerabilities by 25% through qualitative analysis, source code review, & reverse engineering solutions
- Proficiently decreased infrastructure vulnerability by about 27% through the development of proof-of-concept demos & exploiting buffer overflow vulnerabilities, fortifying overall security measures

NCC Telecom Pvt. Ltd., Mumbai, India. | Security Intern – Research & Development Dec 2019 – May 2020

- Incorporated new technologies into module line-up, boosting market competitiveness & satisfaction by 20%
- Engineered firmware for newer modules, enhancing Android & Web app integration efficiency by 15%
- Strengthened module security by 22% via deploying C-based hex files for RSA on the Atmel Atmega Chipset

ACADEMIC PROJECTS

OpenSSL powered Crypto system project Jan 2024 – Feb 2024

- Established secured message exchange for 1 sender & 3 receivers, efficiency increased by 18% & security increased by ~15%

Docker Automation Python Project Nov 2023 – Dec 2023

- Automated web server deployment, implemented OWASP & other cybersecurity aspects in docker container, increasing efficiency by 30%

New England Power System's Risk & Resilience Analysis Sep 2023 – Dec 2023

- Applied MBRA for critical infrastructure, optimizing security measures by 25%

Threat Modeling & Vulnerability Testing in AMI infrastructure May 2022 – Apr 2023

- Utilized Wireshark, IoT TwinMaker, threat modeling for security risk assessments reducing risks by 25% through demonstrated ransomware attack leveraging buffer overflow vulnerability

AI Based Tic-tac-toe Game Jun 2022 – Nov 2022

- Developed User vs. CPU game with Minimax, increasing user engagement by 20%

CERTIFICATIONS

- Introduction to Cybersecurity by Cisco (May 23) | Introduction to Cyber Tools & Cyber Attacks by IBM (Mar 21) | Ethical Hacking from scratch (May 20) | Ethical Hacking (May 20) | CompTIA Security+ (SY-601) (June 23) | Ethical Hacking Essentials (Jul 23) | Information Systems Auditing, Controls & Assurance (Oct 23) | Digital Forensics Essentials (Dec 23) | Network Defense Essential (Dec 23)

PUBLICATIONS

- Bavisi Keval Nitin. (Volume. 7 Issue. 12, December - 2022) "Cybersecurity of Smart Meters.", International Journal of Innovative Science & Research Technology (IJISRT), www.ijisrt.com. ISSN - 2456-2165, PP: - 1223-1227. <https://doi.org/10.5281/zenodo.7511298>