Md Abu Nayeb Towki

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Anticipated Computer Science graduate from Brunel University London in July 2024, with a focus on cybersecurity and hands-on experience in software development and security analysis. Highly motivated to leverage my academic background in operational technology and cybersecurity standards in a dynamic environment. Proactively enhancing my security expertise through ongoing preparations for CompTIA Security+ and ISC2 Cyber Security certifications, poised to contribute effectively to cutting-edge security solutions.

Skills Summary

- **Cybersecurity and Operational Technology:** Strong foundation in cybersecurity principles applied to both software and operational technology environments. Experienced in integrating security measures into web and desktop applications, focusing on maintaining the integrity and security of operational systems.
- **Advanced Networking Skills:** Proficient in TCP/IP protocols, subnetting, virtual machine management, and network security practices, with hands-on experience in configuring and maintaining networks using VirtualBox in academic labs. Demonstrated ability to implement firewalls, VPNs, and IDS to enhance network security, supported by a strong foundation in data communication and traffic analysis.
- **Software Development Proficiency:** Proficient in developing robust web applications using JavaScript, HTML, CSS, React.JS, and Node.JS, with a solid understanding of Java and Java Swing for GUI-based desktop applications. Ability to build full-stack applications that prioritize security and user experience.
- **Database and Data Management:** Skilled in managing complex databases using MySQL and MongoDB, ensuring secure data storage, efficient retrieval, and effective management. Proficient in applying SQL for enhanced data analysis and insights.
- **Agile Project Management:** Experienced in Agile (Scrum) methodologies, utilizing tools like JIRA to drive team collaboration and project tracking. Demonstrated success in managing projects from conception through to delivery, ensuring compliance with cybersecurity standards.
- **User Experience Design:** Proven ability to develop high-fidelity UI prototypes that meet user needs and project specifications. Committed to creating intuitive and accessible designs that enhance user interaction with digital platforms.
- **Analytical and Problem-Solving Skills:** Quick learner with a keen aptitude for employing analytical tools such as SPSS for statistical analysis and data visualization. Strong algorithmic thinking with a focus on optimizing software functionality and performance.
- **Compliance and Standards:** Well-versed in cybersecurity compliance and industry standards, with a strong focus on developing secure networking guidelines and processes that align with best practices. Proficient in TCP/IP protocols, network security measures, and virtual machine configurations, ready to enhance cybersecurity posture through rigorous adherence to high standards and robust network management.
- **Professional Development:** Actively preparing for CompTIA Security+ and Cyber Security certifications to deepen expertise in network security and risk management, aligning with the growing demands of protecting critical infrastructure.

Projects

HeaLife Website (Academic Project)   HTML, CSS, JavaScript, React JS, Node JS, Bootstrap, Express, and MySQL
- Responsibilities: Spearheaded the integration of cybersecurity measures, focusing on compliance with the latest IT security standards. Managed MySQL databases securely and utilized Axios for safe data transactions.
- Achievements: Developed a secure, responsive web application that adheres to stringent cybersecurity protocols, enhancing user data protection and system integrity.

Portfolio Website (Personal Project)   React JS, GitHub
- Developed using React JS and hosted on GitHub, this personal portfolio website showcases my projects, skills, and achievements. I designed it to be user-friendly and visually appealing, ensuring an effective presentation of my work.

Machine Learning Approaches to Distinguish Between Human and AI Text (Academic Project)   Python
- Developed a Python-based model to differentiate between human and AI-generated text. Utilized a variety of machine learning algorithms including Logistic Regression, Neural Networks, Linear Regression, SVM, and Random Forest. This project required comprehensive research into AI text generation technologies and involved the application of advanced NLP techniques to enhance data preprocessing and feature extraction. Managed the project using Agile methodologies, leading to significant improvements in model accuracy and performance.

Advance Word Count With GUI (Academic Project)   JAVA Swing and Eclipse
- Designed and implemented a Java Swing application to count and display the frequency of unique words in a text file. This project enhanced my understanding of GUI development and data structures, showcasing my ability to solve complex problems with innovative solutions.

Scientific Calculator With GUI (Academic Project)   JAVA Swing and Eclipse

- Created a scientific calculator application using Java Swing, emphasizing basic and scientific calculations without relying on the Eval function. This project demonstrated my logical problem-solving skills and deepened my knowledge of Object-Oriented Programming principles.

Education

BSc. Honours Computer Science, Sep 2021 - Jul 2024, Upper Second Class (Expecting 2:1)
Brunel University London, Uxbridge, UK
- Final Year Modules: Cybersecurity, Artificial Intelligence, Software Engineering, Computer Science Project, Advanced Topics in Computer Science - 2.1 [Expecting].
- Second Year Modules: Group Project (C), Algorithms and their Applications (C), Networking and Operating System (C+), Software Development and Management (B), Usability Engineering, Grade (C) - 2.2
- First Year Modules: Group Project (B-), Introductory Programming (A-), Data and Information (A), Logic and Computation (B), Information Systems and Organisations (B-)

HSC Equivalent to A-Levels (Science), Jul 2016 - Jun 2018, GPA 3.25/5
Ideal College Dhanmondi, Dhaka, Bangladesh
- ICT (A-), Physics (A-), Chemistry (B), Biology (B), Higher Mathematics (B)

SSC Equivalent to O-Levels (Science), Jul 2014 - May 2016, GPA 4.61/5
Armanitola Govt High School, Dhaka, Bangladesh
- Mathematics (A+), English (A), Physics (A), Chemistry (A+), Biology (A+), Higher Mathematics (A-)

Professional Development

- **Ongoing Training:** Preparing for CompTIA Security+ and Network+ certifications, aiming to complete by end of 2024. These certifications are focused on developing core cybersecurity skills necessary for securing systems and managing network infrastructure.
- **Continuous Learning:** Regular participant in cybersecurity webinars and workshops, staying updated with the latest trends and security threats.

Volunteering

IEEE Computer Society ULAB, Dhaka, Bangladesh
Graphic Designer   (Jan 2020 - Sept 2020)
- Created posters and banners for the Publication Team using Adobe Illustrator
- Won a logo contest organized by IEEE ULAB SB WIE Affinity, demonstrating my ability to think innovatively when producing ideas.
- Managed my time effectively, completing tasks allocated to me by the set deadline

Work Experience

Costa Coffee, London, UK
Barista Maestro (Team Leader)   (May 2023 – Present)
- Took the lead during shifts, fostering a supportive and efficient work environment. Played a key role in training and accrediting new Baristas, ensuring high-quality service and product knowledge.
- Actively listened to customers and responded to them appropriately, sometimes dealing with very demanding individuals
- Managed day-to-day operations, including stock maintenance and health & safety compliance. Focused on maintaining high standards for product quality, contributing to improved customer satisfaction and store reputation.
- Gained experience of money management by working on the till, cashing up at the end of the day

Vapiano UK, London, UK
Host (Team Member)   (Jun 2021 – May 2023)
- Awarded Employee of the Month" for my hard work and dedication in the role
- Developed good verbal communication skills including tact and diplomacy through contact with customers and staff
- The highly pressurized working environment often required a cool head and innovative solutions to resolve the customers' problems.
- Gained self-confidence and leadership skills through the supervision of new members of staff

INTERESTS

Enjoy playing badminton on a weekly basis to keep fit and active. Like going for long drives whenever I get time. Also have an interest in photography and like to capture images on my phone or camera