Md Abu Nayeb Towki

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https://nayebtowki.github.io/my-portfolio-software/• linkedin.com/in/nayebtowki/ • github.com/nayebtowki/

Anticipated Computer Science graduate from Brunel University London in July 2024, specialising in software engineering. Proficient in JavaScript, Python, Java, React, and Node.js. Experienced in developing scalable web applications and optimising software performance. Highly motivated to leverage my skills in innovative software development projects. Dedicated to continuous learning and staying updated with industry trends.

Skills Summary

- **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 prioritise 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, utilising 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 visualisation. Strong algorithmic thinking with a focus on optimising software functionality and performance.

Projects

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. Utilised 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 model accuracy and performance improvements.

HeaLife Website (Academic Project)   HTML, CSS, JavaScript, React JS, Node JS, Bootstrap, Express, and MySQL
- Played a pivotal role in a team to develop 'HeaLife', a responsive web application aimed at promoting a healthier and more active lifestyle.
- The project involved close collaboration and consistent communication within the team, adhering to Agile methodologies.
- Utilised MySQL for robust data management, effectively tracking user fitness levels, BMI, and calorie intake. Integrated Axios for efficient data handling and storage.
- Spearheaded the creation of a user-friendly front end using HTML, CSS, and React JS, ensuring an engaging and intuitive user experience.
- Skilfully implemented backend functionalities using Node JS and the Express framework, contributing to a seamless and dynamic application flow.

Advanced 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, emphasising 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-)

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 organised 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 in 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 pressurised 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. I 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.