Md Shahedul Haque

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RESEARCH INTEREST

Networking and Security, Cybersecurity, Networking and ML, IoT, Mobile Networking, Wireless Networking

EXPERIENCE

Junior Software Developer — May 2021 – Aug. 2021
Loosely Coupled Technologies Sdn Bhd — *Dhaka, Bangladesh*
- Design front end with AngularJS
- Implement the server side of web applications using Node.js
- Write web services in MSSQL through stored procedures
- Perform on (client's) demand basis integration and developments using Visual Studio
- Communicate with Malaysian business team to reflect the aspired changes in development

EDUCATION

Bangladesh University of Engineering and Technology(BUET) — Dhaka, Bangladesh
BSc of Computer Science and Engineering, CGPA 3.29 (on a scale of 4.00) — *Feb. 2016 – Feb. 2021*

JOURNAL PUBLICATIONS

Md. Shahedul Haque Shawon, Sagor Biswas, Nirob Arefin, Tanmoy Sarkar Pias, Ashikur Rahman: On Age Prediction from Facial Images in Presence of Facial Expressions: International Journal of Applied Pattern Recognition (**IJAPR**), 2021. This publication is the outcome of my undergraduate thesis work

PRESENTATION

6th International Conference on Networking, Systems and Security (NSysS) — BUET, Dhaka
Student poster on "Effect of Facial Expressions on Age and Gender Detection" — *Dec. 2019*
Addressed the issue of deviation while predicting age from facial image with expression

SELECTED PROJECTS

Online Product Locator (Web) Application | *DJango, MySQL, HTML/CSS, Git* — Nov. 2018 – July 2019
- Developed a full-stack web application with DJango serving as toolkit for building Web APIs with HTML/CSS as the frontend
- Followed Software Development Life Cycle(SDLC) in this project

Computer Security Attack Simulation | *Seed Ubuntu, CSRF Lab Site, XSS Lab Site* — Apr. 2019 – Aug. 2019
- Exploited various vulnerabilities by CSRF, stored XSS attack similar to Samy Worm that hit Myspace in 2005
- Hands on experience with Buffer Overflow Attack

Pattern Recognition Algorithms Implementation | *Python, pandas, NumPy, Matplotlib* June 2020 – Nov. 2020
- Implemented 2-class classifiers using Basic perceptron algorithm, Reward and punishment (RP) algorithm and Pocket algorithm as well as multi layer neural network
- Exhaustive search, 2D logarithmic search and Hierarchical search techniques are used for Template Matching
- Performed DBScan and k means algorithms to cluster data without using library function

Obstacle Avoiding Automated Car | *C, IoT, Proteus, AVRDUDE* — Mar. 2018 – Aug. 2018
- Designed PCB without using any external library
- Micro controller & Microprocessor based project to sensor obstacle and deflect the movement of car

Online Retail Management Application | *Java, JavaFX, Oracle, HTML/CSS* — Sep. 2017 – Dec. 2017
- Developed a robust web application with Java and JavaFX framework with HTML/CSS
- Implemented RDBMS to handle data

Simplified C Compiler | *C, Flex, Bison, bash* — Mar. 2018 - Aug. 2018
- Developed a simplified compiler for a subset of C language covering variables, conditions, functions, recursions and symbol table
- Performed lexical analysis using Flex and syntactic analysis using Bison

Technical Skills

Languages: Python, C, C++, Java, SQL, JavaScript, HTML, CSS, MATLAB, Assembly
Databases: Oracle, MSSQL, MySQL, SQLite
Scripting: LaTeX, Linux Shell Scripting
Operating Systems: Windows, Linux
Frameworks: Node.js, DJango, JavaFX, Bootstrap, OpenGL
Developer Tools: Git, Visual Studio, Visual Studio Code, PyCharm, NetBeans, Code::Blocks
Simulation Tools: CISCO Packet Tracer, ns2, Proteus
Libraries: scikit-learn, pandas, NumPy, Matplotlib

Standard Test Scores

GRE: 322/340 | *Quant: 170, Verbal: 152, and AWA: 4.0/6.0*   8 Nov. 2021
TOEFL: 107/120 | *Reading: 29, Listening: 30, Speaking: 21, and Writing:27*   27 Nov. 2021

Honors and Awards

Board scholarship until graduation from Bangladesh govt. in Higher Secondary School Certificate (HSC) Examination