Nabil Ashab

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Research Interest

Machine Learning, Human Computer Interaction, Image Processing, Computer and Network Security, Cybersecurity, Cryptography

Education

Khulna University of Engineering & Technology, Khulna, Bangladesh 2013-2017
Bachelor of Science (B. Sc.) in Computer Science and Engineering
CGPA: 3.01 out of 4.0, 3.51 out of 4.0 in last 60 credits

Government Azizul Haque College, Bogra, Bangladesh 2010-2012
Higher Secondary Certificate | Science
GPA: 5.00 out of 5.00

Bogra Cantonment Public School and College, Bogra, Bangladesh 2000-2010
Secondary School Certificate | Science
GPA: 5.00 out of 5.00

Research Experience

Title: A New Method to Enhance Memory Reliability

Summary: Multiple Cell Upsets (MCUs) are getting to be significant issues in the dependability of memory elements. To keep MCUs from impelling corruption of data, some Error Correction Codes (ECCs) are generally cast off to ensure memory reliability, yet the main issue here is existing error correction codes are time consuming. In this paper, a new method is initiated according to ensure memory more reliable compare to other existing technique together with lower time overhead. It enhances the capability of Decimal Matrix Code (DMC) to increase the error detection and correction capability. As long as error tolerance capability is in concern, many existing methods are outperformed by the proposed method which also reviles by experimental studies

Publications

Priyabrota Sen, Muhammad Sheikh Sadi, Md. Manjur Ahmed and Nabil Ashab, "A New Method to Enhance Memory Reliability," in *2ndInternationalConferenceonElectrical Electronic Engineering (ICEEE2017)* [Accepted].

Professional Certification

- Top-up IT Training for **J2EE** (Advanced JAVA) from **LICT** | OCT-2016
- Cambridge Certification Authority – Qualification – JAVA | OCT-2018

Technical Skills

- **Programming Language:** C, C++ [4 years], Java (Core and J2EE) [2 years]
- **Scripting Language:** Python, JavaScript
- **Game Engine:** libGDX, Unity
- **Web Technologies:** HTML, CSS, Bootstrap, PHP, Laravel
- **DBMS:** Oracle, MySQL
- **Software Version Control:** Git, GitHub
- **IDE:** Code::Blocks, XCode, Android Studio, Visual Studio, IntelliJ IDEA, Eclipse

Academic Projects

- **Zombie Bird | Software Development Project at KUET (2014)**
  An android game inspired from Flappy Bird
  Frontend: libGDX | Backend: Java
- **First Aid Kit | Software Development Project at KUET (2016)**
  An android app to provide emergency medical tips
  Frontend: Java, PHP | Backend: SQLite
- **Banking Enterprise**
  Online banking system
  Frontend: PHP, HTML 5, CSS 3 | Backend: SQL Server
- **Car racing game | Computer Graphic Laboratory Project at KUET (2016)**
  An attractive 3D game
  Language: C++ (OpenGl) | Tools: CodeBlocks
- **Project Gutenberg**
  An E-book reader using command prompt of Windows
  Frontend: C++

Language Proficiency

- Bengali**: Native**
- English**: Fluent** (TOEFL iBT test Scores Reading:24, Listening:25, Speaking:23, Writing:24 Total:96, Test Taken on 26 May 2018)

Aptitude Test Score

- **GRE:** Quantitative Reasoning: **167** (91 percentile), Verbal Reasoning: **147** (34 percentile). Total: **314**. Analytical Writing: **3.5** (41 percentile). Test taken on 17 April 2018

Related Coursework

- **Computer Basics and Programming**
- **Object Oriented Programming**
- **Theory of computation**
- **Computer Networks**
- **Database Systems**
- **Artificial Intelligence**
- **Data Structures and Algorithms**
- **Numerical Methods**
- **Information Security and Control**
- **Computer Graphics**
- **Computer Architecture and Organization**
- **Machine Learning**

Honors and Awards

- **178th position from Rajshahi board in H.S.C. examination with Merit Scholarship**
- **S.S.C. examination with Merit Scholarship**
- **Awarded from Prothom Alo (major daily newspaper) for having 8th grade Merit Scholarship**
- **5th grade with Merit Scholarship**
- **1st position in Wonderland Swimming Competition (2 times)**

Voluntary Experiences

- **SGIPC – Special Group, Interested in Programming Contest** (May 2013 to Present)
  Conducted a number of workshops on C, C++ Programming, Data Structure, Algorithms.
  Arranged and volunteered in several programming contests within the campus
- **HACK – Special Group, Interested in Robotics**
  Conducted a project where Convolutional Neural Network was implemented by simulating the CUDA cores of EVGA GeForce 780 workstation card
- **Bit2Byte.KUET - An Organization to Encourage Student in Software Development** (MAY 2013 to Present)
  Conducted a number of workshops on software development life cycle
- **Dream – Voluntary Blood Donation Society of KUET** (May 2013 to Present)
  Organized blood grouping campaign and managed blood for poor and helpless patients
- **Event Management**
  - **National High School Programming Contest (NHSPC), Khulna (2015, 2016)**
  - **CSE Night (cultural program), KUET 2015**
  - **Lalon Shah Hall Baisakhi Mela (a traditional fair), KUET 2013**

References

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