

# Naajil Aamir

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## Education

### NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES (FAST)

*Bachelors in Computer Science June 2016*

- GPA: 3.76/4.0
- Dean's List for 6 Semesters
- Rector's List for 2 Semesters

### BAHRIA COLLEGE Islamabad

*GCE A levels*

- 1 A\*, 2 As

### ARMY PUBLIC SCHOOL Peshawar

*GCE O levels*

- 5 A\*, 1 A, 1 B

## Projects

### SCHEDULER FOR HETEROGENOUS CUDA ENVIRONMENT (Final Year Project)

**Technologies Used:** CUDA, MPI, SLURM, C-language, Parallel Programming, Python

**Group Size:** 4

*An intelligent scheduler embedded in the SLURM workload Manager to handle CUDA Programs across a heterogeneous CUDA Cluster*

- Supervisor: Prof. Dr. Hasina Khatoon

### ANDROID APPLICATION FOR PROCOM (Mobile Computing)

**Technologies Used:** Android, Java, XML, JSON, MySql, SQLite,

**Group Size:** 3

*An Android mobile application for the annual event of FAST Karachi, PROCOM.*

### ONLINE ELECTRONICS STORE (Database, Web Programming, Human Computer Interaction)

**Technologies Used:** HTML, CSS, PHP, JAVA-Script, AJAX, MySQL, Microsoft Visio

**Group Size:** 3

*An online website for electronic gadgets, ranging over new, old and refurbished categories along with bidding on a particular antique item.*

### HOSPITAL MANAGEMENT SYSTEM (Object Oriented Analysis and Design)

**Technologies Used:** HTML, CSS, Microsoft Visio, Microsoft Project,

**Group Size:** 3

*A hospital management system prototype with complete usecases and sequence diagrams*

### TYPE 2 HYPERVISOR (Operating Systems)

**Technologies Used:** C-language, Numerous System calls

**Group Size:** 2

*Partial type 2 Hypervisor with memory management, Directory Management, Message Handling, Along with support for multiple VMs*

### TREE ORGANIZER (Data Structures)

**Technologies Used:** Java, swing

**Group Size:** 2

*A tree converter which converts any n-ary tree into binary, binary search, min heap, max heap or AVL depending on the user's command*

### CACHE SIMULATION (Computer Architecture)

**Technologies Used:** Java, swing

**Group Size:** 4

*A cache simulator for the x86 architecture with graphical representation of cache hits and cache misses*

### MONOPOLY (Computer Programming)

**Technologies Used:** OOP, C++, Allegro

**Group Size:** 3

*A recreation of the iconic board game*

## Extra Curricular Activities

- Teacher's Assistant for Data Structures and Operating Systems for Batch 2013 and 2014 under Miss Atika Burney (3 Semesters)
- Content Head Procom' 16
- Deputy Head Content Procom' 15
- Programming Mentor for Code Splash 2014 ACM-NUCES
- Developer for ACM-NUCES

## Academic Skills

- Languages: Java, C++, CUDA, C, HTML5, CSS3, PHP, JavaScript, Assembly, R, Python
- Databases: MySQL, Oracle
- Parallel Programming, Android, Web, Socket Programming

## Achievements

- 4<sup>th</sup> position in the batch
- Finalist IBA Probattle 2014 Speed Programming
- Finalists in Coder's Cup 2013
- Scholarship Holder A levels Bahria College