

# Abid Farhan

## Software Engineer

Motivated and teamwork-oriented software engineer with an eagerness for learning and applying industry practices, and delivering effective software solutions to valuable customers

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## WORK EXPERIENCE

### Information Technology Manager

#### Noble House General Trading

06/2016 - Present

Baniyas, Dubai, UAE

##### Achievements/Tasks

- Making major decisions for company to adopt IT solutions and tackle IT-related problems
- Developing dynamic Excel spreadsheets on demand to automate operations using VBA scripts
- Devising organized filing system to increase company productivity
- Supervised development of e-commerce website for company's brand Black Tiger 📄

Contact: Abul Ahsan Choudhury, CEO - info@noble.ae, info@blacktiger.ae

### Graduate Teaching Assistant

#### American University of Sharjah

01/2018 - 12/2019

Sharjah, UAE

##### Achievements/Tasks

- Assisted labs of 25+ students in Programming I and II, Data Structures & Algorithms, GUI Interface, Advanced Digital Systems
- Graded homeworks, quizzes and lab reports with detailed feedback in Computer Networks and aforementioned courses
- Dedicated 16 hours of work time weekly

Contact: Praveena Kolli, Coordinator and Lab Instructor - pkolli@aus.edu

### Mobile App Developer Intern

#### KAAD Developers

12/2018 - 01/2019

Sharjah, UAE

##### Achievements/Tasks

- Established database connection of an Android app project with Firebase using Android Studio
- Implemented dependency injection using Google Dagger
- Implemented the Observer software design pattern
- Created logic flowcharts, entity relation diagrams (ERD) and class diagrams to relay ideas effectively

Contact: Kamil Kamili, Co-founder - kamili.kamil@outlook.com

### Game Developer Intern

#### CG-Interactive

06/2017 - 08/2017

Sharjah, UAE

##### Achievements/Tasks

- Co-developed a virtual reality (VR), open-world, adventure game using Unity game engine
- Implemented logic and dialogues for non-player character (NPC) objects to interact with player
- Set up game logic for player to complete quests and track game progress using C# scripts
- Created a cityscape and a school with background objects, animated pedestrians and cars, lighting and sound

Contact: Abdulwahab Sahyoun, Co-founder - abdu\_sah@hotmail.com

## TECHNICAL SKILLS

### Object-Oriented Languages

Java, C++, PHP, Python

### Procedural/Scripting Languages

MATLAB, VBA, JavaScript, C, C#, R, BASIC

### Frameworks

React.js (JavaScript), Laravel (PHP), Dagger (Android)

### Markup Languages

XML, HTML

### Hardware Description Languages

Verilog

### Other

SQL, UML, OPL, different APIs

## SOFT SKILLS

Technical Presentation

Communication

Teamwork

Problem-Solving

Mentoring

Leadership

Adaptability

Research

MS Office Suite

Driver's License

## ACHIEVEMENTS

### Graduate Assistantship (2018 - 2019)

American University of Sharjah

### Presenter at GITEX (2018)

Presented final year project, Dubai World Trade Center

### Winner of Annual Student Research Award (2018)

First prize, sponsored by Sharjah Islamic Bank

### Dean's List (2017)

American University of Sharjah

### Winner of Final Year Project Competition (2016)

First prize, American University of Sharjah

### Merit Scholarship (2014)

American University of Sharjah

### Chancellor's Scholarship Award (2013)

American University of Sharjah

## PROJECTS

### Text Battleground - A Java-based Typing Game (2020)

- Implemented multiple software design patterns such as the Observer pattern, the Producer and Consumer pattern, the Singleton pattern
- Implemented robot logic to randomize and automate battles
- Designed various synchronized queues using multi-threading concepts
- Added character concepts and special moves for extra layer of fun
- Github repo [↗](#)

### FPGA-Enabled CloudSim (2019 - 2020)

- Part of Master's Thesis [↗](#)
- Implemented classes and interfaces to simulate FPGA behavior using Java
- Implemented virtualization framework to enable FPGA as a cloud resource
- Implemented an adaptive simulated annealing heuristic-based resource scheduler
- Integrated new modules with existing CloudSim engine to run co-simulations

### 'cFlow' ERP (2017 - 2020)

- Implemented a native ERP software application with all core modules
- Maintained version control using Git
- Managed tasks and deadlines for higher productivity using Trello
- Organization: Noble House General Trading Co. LLC
- Promo video [↗](#)

### 'BoeyToey' - Excel Made Smarter (2020)

- Developed a small-scale accounting software for Excel customers
- Created numerous VBA scripts to perform tedious, complex calculations on Excel to reduce cell dependencies and waiting time of customer
- Used ActiveX Controls to make user-friendly interface
- Added features to auto-generate invoices and statements into shareable PDF files
- Client: SKBZ Bangladesh Islamia School

### 'Halla Sayara' (2019)

- Collaborated on a carpooling Android app
- Implemented MySQL as backend and created PHP scripts as middleware for queries
- Implemented Google APIs such as Maps, Places and Directions
- Created an admin portal so admins can verify user documents that are uploaded via users' phones

### 'TapEat' (2019)

- Created a native Android app targeted for children and/or people of determination
- Implemented text-to-voice speech library

### FPGA-Based Gait Rehabilitation System (2016 - 2017)

- Completed senior design or final year undergraduate project within 2 semesters
- Won first prize in final year project competition
- Won first prize in Annual Students Research Award sponsored by Sharjah Islamic Bank
- Published paper on IEEE Xplore at conference in France
- Presented project at GITEX 2018

### Business Cube (2016)

- Designed and created a user interface using Java Swing library
- Created flat CSV files as backend
- Organization: Mohsen Al Braiki General Trading Co. LLC

### Cloud SugarDaddy (2016)

- Designed and implemented a web application using Java Servlets
- Deployed app on Microsoft Azure
- Course: Cloud Computing

### Hospital Management & Administration System (2016)

- Designed and created a native desktop application using Java Swing library
- Course: Software Engineering

## PUBLICATIONS

IEEE Conference

### Role of FPGA in Internet of Things Applications [↗](#)

Author(s)

Mohammed Elnawawy, Abid Farhan, Ahmad Al Nabulsi, Abdul-Rahman Al-Ali, Assim Sagahyroon  
20 February 2020

IEEE Conference

### FPGA-Based Gait Rehabilitation System [↗](#)

Author(s)

Mohammed Elnawawy, Abid Farhan, Ahmed Mohamed, Assim Sagahyroon, Lotfi Romdhane  
30 April 2018

Elsevier Journal

### Enabling FPGA and Virtualization Framework in CloudSim

Author(s)

Abid Farhan, Assim Sagahyroon, Raafat Abu Rukba

(Pending Paper)

### Master's Thesis

IEEE Conference

### Minimizing Task Completion Time in an FPGA-Enabled Cloud Infrastructure

Author(s)

Mohammed Elnawawy, Abid Farhan, Raafat Abu Rukba, Khaled El Fakih, Assim Sagahyroon  
(Pending Paper)

## EDUCATION

### Computer Engineering, MSc. American University of Sharjah

01/2018 - Present

Sharjah, UAE

### Computer Engineering, BSc. American University of Sharjah

06/2013 - 12/2017

Sharjah, UAE

### Engineering Management, Minor American University of Sharjah

06/2013 - 12/2017

Sharjah, UAE

## LANGUAGES

English

Full Professional Proficiency

Bengali

Native or Bilingual Proficiency

Hindi

Professional Working Proficiency

Arabic

Elementary Proficiency