Faizan Safdar Alı

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SUMMARY

Offering five years of software development and research experience with high level, imperative, object oriented languages. Skilled with the concepts of version control, unit testing, agile development, open source, and team-driven collaborative programming. Interested and experienced in working with algorithms, data structures, Artificial Intelligence, distributed and operating systems. Strong command and interest in Data Science and Deep Learning.

EDUCATION

2019-2020	Masters in CS, Koc University, Turkey (KU), (Block Chain and Edge Computing)
	Relevant Courses: Network and System Security, Parallel Programming, Deep Learning.
2017-2018	Masters in CS, University of Illinois at Chicago (UIC), (Incomplete due to financial issues)
	Relevant Courses: Web development and Security, Database Systems, Distributed Computing,
	Algorithm Design, Operating System Concepts and Design.
2013-2017	BSc CS, Lahore University of Management Sciences (LUMS), Field of Networks and Systems
	Relevant Courses: Networks Computing, Data Mining, Computer Systems, Machine Learning,
	Topics in Internet Research, Computer and Problem Solving, Artificial Intelligence, HCI

INTERNSHIP/TEACHING EXPERIENCE

SUMMER 2014	ACM Internship: Developed projects in java, python, C++, Socket , threads, Data structures
SUMMER 2015	Smart Locker: Build GUI/ designed UX in Android, Build logic of smart lock for android 4.1.
TEACHING LUMS	Intro to Programming, Digital Logic Circuits, Fundamentals of Computer Systems
Teaching UIC	Machine Organization, C++ and Matlab

RESEARCH EXPERIENCE

SPRING 2018 -	•Fast Graph Exploration by a Mobile Robot
SUMMER 2018	•Developed a faster algorithm for graph exploration.
	Calculated optimum time and memory complexities.
	•Proved that the algorithm is faster than already developed algorithms.
	•Paper got accepted in AIKE conference 2018.
SUMMER 2016 -	•Implemented Utility-Aware ECMP Technique using P4 Language on routers.
SPRING 2017	•Tested and proved that this technique is better by sending packets over network topology.
	•Implemented it on the data path to make it more efficient and fast.
	•Reduced the latency and increased the throughput of the network.
	•Used Linux/Ubuntu platform for writing and testing the code and Simulating routers.
SPRING 2015 -	•Caught Collusion Networks And Reputation Fraud.
SUMMER 2016	•Studied how the underground blackhat websites like SEOClerk sell the likes on the social sites.
	•Identified frauds by building classifiers to find accounts using collusion-networks.
FALL 2015 -	•Made Smart Grids to handle Home Appliances Smartly using Linux app build on PHP.
SUMMER 2016	•Used different IoT devices and Presented data in graphs and tables to user
	•Used MATLAB to analyze the power consumption and predict the cost in the future.
	Built Android app to present data to user on their Cell phone any time anywhere

PERSONAL/COURSE PROJECTS

VF Training:	 Developed a virtual reality firefighter training platform using C# in Unity 3D
	•Utilized MySQL to develop a database to store user information and simulation data
	•Designed a GUI using event-driven immediate mode GUI in C#
	 Modeled three dimensional game models using Adobe Illustrator
CRIME PATROL:	•Did the data mining/data analysis on the data set of the crimes in America.
	•Classified the areas with respect to the extent and type of crime using Rapid Miner and R.
	•Used python script to map the result on the real map. Ploted graphs and made conclusions.

HEYDOC: | • Developed a web-app made on Ruby on Rail. A RESTful API.

•Developed MVC model. Used MongooDB as database to store user and doctors information.

•Did unit testing of the app. Wrote the paths and linked files with the web page

•Wrote Algorithm to find the near-by doctor using Google maps and location.

ROLLER COASTER:

•Made a 3D roller coaster game on Matlab with 3 levels and attractive UI.
•Made the roller coaster simulation using physics rules.

TAINT ANALYSIS: | • Did taint analysis on the open source Android app binaries on different websites.

•Wrote a scrapper on python to open URL and save the apps to the local drive.

•Wrote C++ script to analyze and find the security leaks and development failures in the apps.

•Used Amazon Cloud Services to run and analyze the program.

• Parsed JSON from the URL and extracted the required URLs to crawl through the website.

EMAIL READ: • Made an Google chrome extension using chrome API.

•Wrote NodeJS back-end server with ember to hanlde guerries.

•Made front end with jade and AngularJS. Used Dockers and Mangoose for database.

ANYFEED: • Developed web-app using NodeJS and express. Used JavaScript for event-driven web page.

•Used jade to design the website. Developed protocol to anonymously post on the page

•Did unit testing. Used Mongoose and dockers for the database handling.

DARZI BHAI: •Created a business model for a start-up, an online platform where people find tailors.

•Developed the business model, revenue model and implemented the part of it.

•Did user studies and tested the platform. Created mock-ups for the web-app and mobile-app.

SUDOKU: Developed Sudoku puzzle using ExcelVBA and Macros. Developed algorithm and the user UI.

TECHNICAL SKILLS

Programming Languages | MySQL, C++, C, C#, JAVA, PYTHON, OPENGL, R, GOLANG, Excel VBA

Functional Languages | HASKELL, CLOJURE, F#

Development | PHP, HTML, JAVASCRIPT, JQUERRY, RUBY, RUBY ON RAILS, CSS, NODEJS, EMBERJS, ANGULARJS,

IOS, ANDROID

Softwares | Matlab, Visual Studio, Android Studio, Unity, Unreal Engine, RapidMiner, Microsoft Ex-

cel, Microsoft Word, SAS, AWS

Operating Sysytems | WINDOWS, LINUX, ANDROID, IOS

Databases | mySQL, NoSQL, MongoDB, Dockers, Hadoop

Honors and Awards

MENSA IQ TEST Held at NUST H-12 - Islamabad. IQ score 135 translated into 99th percentile.

MATRIC EXAMS Gold medalist at school (10th grade level) for scoring highest marks...

VALEDICTORIAN 3rd position at college (12th grade level) in the home exams.

REFERENCES

AJAY D. KSHEMKALYANI ajay@uic.edu

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JUNAID H. SADIQUE junaid.siddiqui@lums.edu.pk

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IMPORTANT LINKS

AIKE PAPER 2018

Efficient Dispersion of Mobile Robots on Graphs