

Arhum Savera

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Career Objective

Motivated and resourceful fresh Computer Science graduate to be, looking to secure a promising position in an organization where I can enhance and put use to my proficient skills in coding and problem solving.

Education

National University of Computing and Emerging Sciences, Karachi Campus

Bachelor of Science Degree, Computer Science (8th Semester)

- **CGPA: 3.82**
- Electives including Machine Learning, Information Retrieval, Data Warehousing, Software for Mobile and Web Programming

The City School Gulshan A Levels, 2010-2012

- 3 A's
- Engineering Track: Math's, Physics, Computing, Chemistry

The City School Gulshan Boys Campus, Karachi, 2008-2010

- 3 A*'s, 3As
- Pre-Engineering

Awards and Honors

- Silver Medalist of Batch 2012
 - 6 time Dean's list member.
 - Winner of the Coders Cup Speed Programming competition held by ACM NUCES
 - A levels High Achiever (Scholarship)
 - O levels High Achiever
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Projects

Speed-breaker and ditch detection and warning system (Ongoing Final Year Project)

An Android application using built-in sensors coupled with Machine learning algorithms to detect speed breakers and ditches, using cloud based services to crowd source data.

Sentiment Analysis on IMDB movie reviews

Using over 75,000 movie reviews to perform sentiment analysis using combinations of algorithms including Bag of Words, Random Forrest and Google's word2vec to replicate Deep learning.

ReVtail retail guide for Android

An android application for users to rate local retail stores and upload reviews using Corona SDK for development and Parse for database.

Browser Security extension for Google Chrome

Tracking cookies and malicious URL's using WOT API, IndexDB and Chrome API.

Basic OS development on Raspberry Pi

Building a simple OS from scratch on Raspberry pi which performs process switching and arithmetic.

Console Based Monopoly Game

An implementation of the classic game using C++ and Allegro.

Parallel Algorithms Comparison

Comparing the performance of different sorting algorithms on different sized input using threads on Java.

KK Supermart: Online Grocery Shopping

A Web based grocery store allowing user sign up, inventory browsing and transactions using MySQL, HTML5, Bootstrap and PHP.

Online Electronics Store

Similar to eBay, an online store allowing selling and purchasing of new, antique and refurbished items of several categories including appliances and phones.

Technical Skills

- **Languages:** Java, C++, Python, C, HTML5, CSS3, PHP, JavaScript, JQuery, ARM Assembly, Octave.
 - **Databases:** MySQL, Oracle, IndexDB, DataTables.
 - **Development Environments:** Netbeans, Android Studio, Anaconda Notebook, Dev C++, Visual Studio, Eclipse.
 - **Design:** Adobe Photoshop CS6
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Experience

Dubai based real estate website: www.hausrus.com

A property listing site currently in use by a client. Built with tools including HTML5, PHP, Javascript and DataTables.

Internship at IT Security Labs (Summer 2015)

Work on web technologies and browser extension development along with research work under Dr. Sufian Hameed.

Data Structures Lab T.A

Conducting weekly labs teaching students how to implement various data structures on Java.

Programming Mentor

Guiding and assisting freshmen develop C language projects at Code Splash(ACM-NUCES)

References

Available on request.