

# FARHAN KAMAL KHAN

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**INTRODUCTION** At core I am a problem solver that loves being challenged. A programmer that wants to solve real world problems that tend to make a difference.

**EDUCATION** **BACHELOR OF COMPUTER SCIENCE**  
National University of Computer and Emerging Sciences. Expected completion in 2016.  
**THE CITY SCHOOL PAF CHAPTER**  
A LEVELS (5 SUBJECTS). Completed in 2012.

**ELECTIVES**

- Software Process and Quality Assurance.
- Neural Networks.
- Introduction to Cloud Computing.
- Machine Learning.
- Project Management.

**PROFESSIONAL ACHIEVEMENTS** **RESEARCH PAPER PUBLISHED IN IEEE EXPLORE, NOVEMBER 2015.**  
11th International Conference on Innovations in Information Technology (IIT'15) Dubai, UAE.  
**THE CODERS CUP COMPETITION, 2013.**  
Winning the Speed programming competition.  
**BEST SEMESTER PROJECT, 2013.**  
String suggestion for incorrect spelled words using Leveshtein Automata.

**PROJECTS** **Final Year Project - Security Framework for eHealth App with Mobile Cloud Computing.**

- Programmed in Java.
- Use-case selected is a health related mobile app which will have patients, doctors and paramedics as its users.
- Security Framework is created using Java's Bouncy Castle API and uses cryptographic primitives such as AES, HMAC, Public Key Cryptography to provide integrity, confidentiality, and authentication.
- This app is still under progress and is expected to be completed by April 2016.

**Sentiment Analysis on Tweets.**

- Programmed in Python.
- Using machine learning algorithm of probabilistic classification.
- The dataset that we have used is a labelled set of 1048588 tweets. Labelled as negative denoted by 0 and positive denoted by 1.

**Word Suggestion using Levenshtein Automata.**

- Programmed in Java.
- Misspelled words will be searched and corrected using a dictionary with Levenshtein's algorithm and the project was implemented with finite automata (Trie data structure)

**WORK HISTORY** **CIS (COMPUTER INFORMATION SERVICES)**  
Intern Software Engineer 1<sup>st</sup> July 2010 – 25<sup>th</sup> August 2010.

**SKILLS** Core Programming, Java, Python, Visual Studio, SQL, LaTeX, Amazon Web Services.

**PUBLICATION** **PIMAIL: AFFORDABLE, LIGHTWEIGHT AND ENERGY-EFFICIENT PRIVATE EMAIL INFRASTRUCTURE BY Sufian Hameed, Muhammad Arsal Asif, Farhan Kamal Khan.**  
In 11th International Conference on Innovations in Information Technology (IIT'15) Dubai, UAE, 1-3 November 2015.  
[ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=7381561](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=7381561)  
An implementation of PiMail using Raspbian OS, Postfix Mail Transfer Agent (MTA), ClamAV and SpamAssassin. We concluded that PiMail is fully capable of providing email services to individuals and SMEs.