

## OBJECTIVE

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To seek further challenges of Bioinformatics to expand my skills of both genetic engineering and software engineering within a progressive and fast growing environment that challenges its people and uses state-of-art technologies while enhancing my proven abilities and dedication to a motivation team.

## QUALIFICATION

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MS-Bioinformatics      2009-2011,  
COMSATS Institute of IT,  
CGPA 3.63/4.00

## PROFESSIONAL EXPERIENCE

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### Internship

At National Institute of Biotechnology and Genetic Engineering, Faisalabad Feb 2009-July 2009

### Voluntary work

At National Institute of Biotechnology and Genetic Engineering, Faisalabad Feb 2009 -July 2009

### Internship

From National Control Laboratory (Biological), Ministry of Health, Islamabad Feb 2010-present

## PUBLICATIONS

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Ahmed Salman Mirza, Asma Sajid, Sobia Ajaz, Nouman Iftikhar, Hira Kamal, February 2010, Canadian Journal on Biomedical Engineering & Technolog, Vol. 1 No. 1, ISSN: 1923-1644.

## AWARDS

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### Internship Certificate in Hands on Experience in Molecular Biology and Bioinformatics

From National Institute for Biotechnology and Genetic Engineering, Faisalabad, 2008

### Second Prize in Software Engineering

From Gulam Ishak Khan Institute, Topi, NWFP, 2008

### Softcom 2008 Participation Certificate

From Gulam Ishak Khan Institute, Topi, NWFP, 2008

### Participation in Frontier of Information and Technology Conference

From COMSATS Institute of Information and Technology, Abbotabad. 2009

### Second Prize in Software Engineering

From National University of Science and Technology, Rawalpindi, 2010

#### PROJECTS

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- Theoretical work on software Engineering Topic Pest Forecasting System
- Developed a moving virus in computer graphics using C++
- Developed a database on hospital system using SQL Server 2000
- Cloned calotropis procera terminator in expression vector
- Genome annotation of calotropis procera genes using bioinformatics softwares
- Developed NIBGE Plant Genome Resource Database using Oracle 8i, Developer 6i
- Developed CD' Kit Software a Central Dogma Analysis Tool Kit Using Netbeans 6.1 and my SQL Server
- Z tool schemas building on biological network analysis
- Simulation and modeling of biological models using a tool known as net logo
- Genome wide annotation using Annotathon an online voluntarily analysis of different environmental sequences
- Finding Plant promoter architecture and development of plant promoter prediction tool.

#### BIOINFORMATICS SKILLS

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Database Designing, Biological Software Engineering, Programming, Biological Data annotation, Primer Designing, Restriction Analysis, Molecular Biology Techniques, and Teaching

#### COMPUTER SKILLS

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Java, Z language schemas formation, Netbeans 6.0, 6.1, Perl, Oracle 8i, 9i, 10g, Developer 6i, 9i, my SQL Server, SQL Server 2000, C++, Microsoft Office, Microsoft Visio, Snag It, Inpage, Adobe Photoshop,

BLAST, COGs, Just bio tools, EXPASY server tools, KOBAS Annotation System, DNA Star, Chromos Lite, NCBI Tools, Protein Data Bank, net primer, primer 3.

#### OTHER SKILLS

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Polymerase Chain Reaction (PCR), Plasmid isolation by conventional alkaline lyses technique, Restriction Reaction of DNA, Agarose Gel Electrophoresis, Phenol-chloroform extraction, Elution of DNA by kit, DNA Ligation, Preparation of competent cells, Transformation, Streaking, Spreading, Culture formation, Culture preservation

#### ACTIVITIES

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- 28<sup>th</sup> congress of zoology (International) held in GC university, Faisalabad
- Workshop on oracle database development held in APTECH institute of professional studies, Faisalabad
- International conference on Frontier of Information and Technology 2009 held in COMSATS Institute of Information and Technology, Abbotabad.
- International conference on Frontier of Information and Technology 2010 held in COMSATS Institute of Information and Technology, Islamabad.