

Malik Nabeel Ahmed Awan

SENIOR MANAGER - PRODUCT DEVELOPMENT

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Professional Summary

- 10+ years of professional experience in planning, architecture and implementing state of the art technological solutions.
- Experience in implementing applications using Spring Framework, Spring Boot, Spring Data, Hibernate, Spring MVC, Apache CXF, AWS S3, RabbitMQ, Apache Kafka, Sesame API.
- Good understanding of indexing applications such as Elastic Search and Lucene.
- Worked on No SQL (Mongo DB), Relational (PostgreSQL, MySQL, MS SQL Server) and Graph Databases (GraphDB, ApacheTDB, Stardog, Allegrograph).
- Worked on Information Extraction and Retrieval frameworks, such as GATE, UIMA, Stanford NLP Toolkit, OpenNLP.
- Experience in DevOps (Jenkins, Heruko and Saguko), Version Control (Git and SVN), and Development pipelines (Bit bucket and Git hub).
- Have extensively worked under Agile Methodology.
- Worked on Code optimizations and profiling using SonarQube.
- Worked on application scalability and performance optimization using AppDynamics and New Relic.
- Managed cross-functional project teams of up-to 14 people.

Work Experience

CydeaTech (Pvt.) Limited

Islamabad, Pakistan

SENIOR MANAGER - CYBERSECURITY PRODUCT DEVELOPMENT

July. 2019 - In Progress

- Preparing work breakdown structure, effort estimation, task allocation and deliverable.
- Defining product/project specifications, design, architecture and technology stack.
- Tools and Technologies : Spring Framework, Spring Boot, Spring MVC, Jasper Reports, Elastic Search, MySQL, Apache Tomcat

Trillium Information Security Systems

Rawalpindi, Pakistan

SENIOR MANAGER - CYBERSECURITY PRODUCT DEVELOPMENT

May. 2018 - June 2019

- System analysis and architecture design for cyber-security application
- Research in the area of cyber-security on cutting edge problems
- Sprint planning, team and task management for on-time project delivery.
- Tools and Technologies : Spring Framework, Spring Boot, Spring MVC, Jasper Reports, Elastic Search, MySQL, Apache Tomcat

Active Capital IT

Islamabad, Pakistan

SOFTWARE SOLUTION ARCHITECT

March. 2015 - March 2018

- Design and implementation of the Linked Open Data (LOD) framework for cultural heritage.
- Design and implementation of institutional reporting and messaging queue for bulk job processing.
- Application scalability and performance analysis using App-Dynamics and New Relic.
- Application deployment using Jenkins and Saguko.
- Team and task management for on-time project delivery.
- Tools and Technologies : Spring Framework, Spring Boot, Apache CXF, Spring MVC, AWS S3, RabbitMQ, Jasper Reports, GraphDB, Sesama API, Elastic Search, PostgreSQL, MongoDB, Apache Tomcat

School of EE and CS, National University of Sciences and Technology

Islamabad, Pakistan

TEAM LEAD

January 2012 - February 2015

- Design and implementation of an e-Recruitment system
- Design and implementation academic-industry liaison application Pakistan Innovation Network (PiNET)
- Design and implementation of Jobs Crawler.
- Actively working on new technology and applications research, design and implementation.
- Responsible for project delivery on-time with all agreed upon deliverables/documentation.
- Application deployment(s) using Jenkins.
- Team Management that included human resource management, task assignment, and reporting for on-time project completion.
- Tools and Technologies : Apache CXF, Apache Jena, GATE Framework, Stanford NLP Toolkit, Lucene, Apache TDB, Apache Tomcat.

Personforce Consulting (Pvt.) Ltd

Islamabad, Pakistan

TEAM LEAD (BIG DATA)

October 2013 - January 2014

- Design and implementation of application for sharing skills extracted from job descriptions.
- Design and Implementation of a job crawler for Fortune 500 companies with job boards on Taleo, bright spyre, indeed, rozee.pk, personforce, monster, job-site, total-jobs and others.
- Design and implementation of skills extraction algorithm.
- Tools and Technologies : Apache JAX-RS, Apache Lucene, GATE Framework, Stanford NLP Tool Kit, Apache Jena, Apache TDB, and Apache Tomcat.

School of EE and CS, National University of Sciences and Technology

Islamabad, Pakistan

SENIOR SOFTWARE ENGINEER

September 2009 - December 2011

- Design and implementation of L7 layer security application firewall.
- Setting-up of a virtual machine based application deployment infrastructure for application firewall.
- Responsible for team management, that included human resource management, task assignment and reporting.
- Tools and Technologies : Apache JAX-RS, Apache Jena, Apache TDB, Apache Lucene, Mod Security, Apache2, Apache Tomcat, ESX/ESXi 4.1, VMware vSphere 4.1.

Skills

PROGRAMMING LANGUAGES AND DATABASES

- Fluent in Java Enterprise Edition and Object-Oriented Programming.
- Good understanding of frameworks such as Spring Framework, Spring boot, Hibernate, Spring Data, Spring MVC, Apache CXF.
- Good understanding of relational data base design and applications: MY SQL, MS SQL Server, PostgreSQL.
- Good understanding of No-SQL data base design and applications: MongoDB.
- Good understanding of Graph data base design and applications: GraphDB, Apache TDB, Allegro-graph, Star-dog.
- Worked on technologies: Apache CXF, Apache Kafka, Swagger v2.0, Apache Jena, Sesame, Protégé, AWS SDK
- Familiar of data modeling languages: JSON, YAML, XML, RDF/RDFS, OWL.
- Good understanding of design patterns: Factory Method, Singleton, Prototype, Facade, Bridge, Proxy, Command

CLOUD

- Good understanding of IaaS, PaaS, and SaaS.
- Good understanding of RESTful design and Microservice.
- Good understanding of Linked Open Data (LOD).
- Familiar with some other platforms: Docker, AWS etc.
- Familiar with some virtualization technologies: VMware, etc.

BIG DATA AND ANALYTICS

- Good understanding of machine learning algorithms using both supervised and unsupervised learning.
- Good understanding of natural language processing applications: GATE, UIMA, Open NLP, Stanford NLP Toolkit
- Good understanding of Indexing : Elastic Search (ES), Kibana, Apache Lucene.
- Good understanding of ETL process.
- Good understanding of Queue and Streaming applications: RabbitMQ, Apache Kafka.

DEVOPS & MASTERING TOOLS

- Experience with Docker, Git, Sagoku (a platform build on top of Amazon EC2) , Heroku and Jenkins to build the full chain of DevOps.
- Good understanding of application monitoring tools: New Relic and AppDynamics.
- Experience with Git and SVN version control systems.
- Familiar with a variety of documentation tools: \LaTeX , MS Office, Markdown, etc.

Education

PhD in Information Technology

August 2019

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY ISLAMABAD, PAKISTAN

M.S. in Information Technology

April 2009

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY ISLAMABAD, PAKISTAN

B.S. in Information Technology

September 2006

COMSATS UNIVERSITY ISLAMABAD (ABBOTTABAD CAMPUS), PAKISTAN

Publications

A New Approach to Information Extraction in User-Centric E-Recruitment Systems

Journal Paper

MALIK NABEEL AHMED AWAN, SHARIFULLAH KHAN, KHALID LATIF AND ASAD MASOOD KHATTAK; APPLIED SCIENCES, 9(14), 2852. PG 1-23

August 2019

Job Description Ontology

Conference Paper

NABEEL AHMED, SHARIFULLAH KHAN, KHALID LATIF; 2016 INTERNATIONAL CONFERENCE ON FRONTIERS OF INFORMATION TECHNOLOGY (FIT), ISLAMABAD, PAKISTAN. PG 217-222

December 2016

Mapping Natural Language Questions to SPARQL Queries for Job Search

Conference Paper

NAILA KAREEM, KHALID LATIF, NABEEL AHMED, MISHAL FATIMA, AND ATIF MUMTAZ; 2013 IEEE SEVENTH INTERNATIONAL CONFERENCE ON SEMANTIC COMPUTING, CALIFORNIA, USA. PG 150-153

August 2013

Detect HTTP Specification Attacks Using Ontology

Conference Paper

RANA FAISAL MUNIR, NABEEL AHMED, ABDUL RAZZAQ, ALI HUR, FAROOQ AHMED; 2011 FRONTIERS OF INFORMATION TECHNOLOGY, (FIT), ISLAMABAD, PAKISTAN. PG 75-78

December 2011

Intelligent Search in Digital Documents

Conference Paper

ASAD MASOOD KHATTAK, JIBRAN MUSTAFA, NABEEL AHMED, SHARIFULLAH KHAN; 2008 IEEE/WIC/ACM INTERNATIONAL CONFERENCE ON WEB INTELLIGENCE AND INTELLIGENT AGENT TECHNOLOGY, SYDNEY, AUSTRALIA. PG 558-561

December 2008

Extracting Semantic Annotation and their Correlation with Document

Conference Paper

NABEEL AHMED, SHARIFULLAH KHAN, KHALID LATIF, ASAD MASOOD; 2008 4TH INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES, ISLAMABAD, PAKISTAN. PG 32-37

October 2008