

London, State  
United Kingdom. PIN - IG45AW

# ARIF MALIK

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## EMPLOYMENT

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### Senior Software Development Engineer

**Bank of America (Contractor)**

**May 2019 - Present**

- Working on the FX eTrading platform, design and built service APIs and data pipelines for connectivity with different trading exchanges like CME.
- Built and launched Alpha, Beta and General versions of AMPS publish and subscribe engine core libraries and multiple feature of the Pub/Sub UI.
- Worked on real-time and low latency electronic trading components in Java and Python that can be used to build Exchanges/ECNs and Front Office Algorithmic trading systems.
- Built a simple market data simulator to generate random prices between accepted range for each ticker for testing of order booking in UAT environment.
- Developed various low level util libraries for components like AMPS and EMS Queues to be used by other developers as medium of communication between discrete components.
- Take part in reviews of work, e.g. design and code reviews, and demonstrate software to all stakeholders.

### Senior Software Development Engineer

**CRISIL LTD.**

**June 2017 - April 2019**

- Built fuzzy matching algorithm using k-nearest neighbors to identify non-exact matching duplicates. The algorithm was used to compare two datasets to find a match based on user input tolerance.
- Worked in data migration program where the main goal was to migrate data from Legacy to entirely new platform (entirely built on python and C++). The process involves testing and data analysis at various stages of migration. Built a utility application for users to run software for different types of data and generate reports for analyzing market data, historical data and other details.
- Developed web applications for market analysis using Flask, Django Python frameworks for NULL check of various data fields and displays the NULL value percentage in UI for End of Day containers using Python/JavaScript/Flask.
- Managed 2 Engineering Practicum interns, 1 Internship software engineer and 1 Quant developer for period of 3-4 months; led the launches of their projects; received outstanding feedback on my leadership, management and leadership.

**Software Development Engineer**

**L&T Technology Services**

**Nov 2014 - June 2017**

- Worked as a software developer in a team of 20 members for developing a cutting-edge data analytics tool for utility companies that leverages the connecting devices of the smart grid. The project was completely running on agile methodology.
- Built a data pipeline using azure cloud services and AMPS messaging, Developed a cloud-based architecture and individually deployed graphical user interface.
- Responsible for development of an advanced, Open-Standards, Web based application used to register, communicate with utility devices and facilitate remote retrieval of transformer monitor data.
- Developed a sensor module for sub sea drilling system to automatically detect new sensor, Also worked on module to fetch sensor data from drilling system and analyze the same.
- Nominated to attend special workshop for a select few engineers who show exceptional leadership potential.

### **Passionate Software Developer, Keen to work on new ideas.**

### **Open Source**

- Developed an algorithm visualizer software in JavaScript and Python for visualizing of different algorithm, The user has a freedom to choose data and speed to visualize an algorithm. <https://github.com/Aarif1430/Algorithm-Visualizer>
- Successfully completed machine learning course on coursera taught by Andrew Ng. With 85% score. <https://github.com/Aarif1430/Coursera-Machine-Learning-Solutions>

### **Languages and Technologies**

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- Python, C++, Java, JavaScript, **Unix/Linux, Shell Scripting** along with experience of analysis, design (using UML) and testing, Expertise on Algorithmic Development, Data Analytics, Pattern Recognition, data cleansing, mining and modeling using Python frameworks like Pandas, NumPy, SkLearn, TensorFlow, Keras, Theano.
- Operating System - Linux, Windows, Mac OS
- Database - MySQL, MongoDB, Object Oriented Databases
- Frameworks and tools - IntelliJ IDEA, Sonar, Jenkins, TeamCity, Artifactory
- Others - GitHub, Jira, Apache CXF, Redis, Nginx, TFS, SVN

### **EDUCATION**

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**Jalandhar Punjab,  
India**

**Lovely Professional University**

**July 2010- May  
2014**

- B.Tech. in Electronics and Communication Engineering. CGPA: 7.80/10
- Main coursework: Digital Electronics, Communication Systems, Microprocessors, Data Structures, Design and analysis of Algorithms, Computer Architecture, Artificial Intelligence, Database Systems, Operating Systems, Software Engineering.

### **B.TECH. MAJOR PROJECT**

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- Studied human activity recognition using accelerometer data from smart phones. The project studies the User Identification from walking activity of different users, Data is collected from 22 participants walking in the wild over predefined path
- Worked on low cost audiometry system to measure the hearing acuity, The idea was used to reduce the cost of existing devices available in market.

### **ACHIEVEMENTS AND RESPONSIBILITIES**

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- Got Excellence Award twice in (CRISIL LTD.), one given for extraordinary performance in a quarter.
  - Worked as vice president in EWH (Engineering World Health) a non-profit organization for development of low cost audiometer device.