

Asjad Asif Jah

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EXPERIENCE

2022 August 2022 - Present

Engineering Manager at Byte Technology Systems Pvt. Ltd.

Working as an engineering manager at Byte Technology Systems Pvt. Ltd.

2022 May 2022 - July 2022

| **Associate Engineering Manager** at Airlift Technologies Pvt. Ltd.

2022 Worked as an associate engineering manager in the Warehouse Operations team to deliver web and mobile products used in the Airlift warehouses. Worked as a fullstack developer with hands-on development on Angular + Node.js. Managed a team of 6 engineers (Fullstack + Android + Auto. QA)

2020 February 2019 - September 2020

| **Senior Software Engineer** at Afiniti Software Solutions Pvt. Ltd.

2019

Software Engineer at Afiniti Software Solutions Pvt. Ltd.

Worked as a fullstack software engineer in the Engineering team on the following projects:

- **Afiniti Core - Configuration Server** (Role: *Project Lead and Backend Developer (Node.js + C++)*)
Managed a team of 4 engineers (Node.js + React.js + C++)
- **Config Server - Transformation App** (Role: *Project Lead and Backend Developer (Python)*)
- **Afiniti MegaACD** (Role: *Fullstack Developer (Node.js + GraphQL + React.js)*)
- **Afiniti IME/AiRo** (Role: *Backend Developer (Node.js + GraphQL)*)
- **Afiniti Core - Lookup Service** (Role: *Backend Developer (C++)*)

2019 August 2017 - February 2019

| **Application Engineer** at Development Services Division, LMKR Pvt. Ltd.

2017 Worked as a Java software engineer for Halliburton on developing data integration, federation, and interoperability between multiple Oil & Gas Exploration & Production software. Key responsibilities included the development of Teiid connectors and translators to expose data using data virtualization, patching various modules of the application for smooth flow of data to/from multiple connectors, extending Apache Thrift server and client implementation in Java, C#, and C++ for various connectors, moving Teiid connectors to Docker, development of unit and integration tests for multiple connectors, and automation of tests after integration with Docker.

2017 July 2016 - August 2017

| **GIS Developer** at R&D Department, TPL Maps Pvt. Ltd.

2016 Worked on a wide array of projects using Java, Python, and C++ and implemented them on multiple platforms, including Desktop, Server, Web, and Android. A few significant highlights include the development of a Python server application to generate secure, encoded, and small-sized vector map tiles, implementation of a graph-based routing algorithm in Java, development of multiple data QA Java applications to detect GIS data anomalies, automated language translation of map data, development of a mechanism to convert satellite images to raster map tiles for loading them offline inside an android application, and addition of new features in the native C++ library for map rendering.

QUALIFICATIONS

2022 **M.S. Spatial Data Science**, CGPA 4.00/4.00

| University of Southern California, Los Angeles, CA 90007, United States.

2020 Fulbright Scholarship

2016 **Bachelor of Engineering (B.E.),** CGPA 3.71/4.00
| National University of Sciences & Technology (NUST), Sector H-12, Islamabad, Pakistan.
2012 PEC Registered Engineer

SKILLS

Programming Languages	Java, C, C++, Python, Scala, TypeScript, JavaScript
Databases	PostgreSQL, MySQL, Oracle, SQL Server, MongoDB, Firebase
Data Science	Pandas, DataFrames, Hadoop DFS, Hadoop MapReduce, Apache Spark
Frameworks	Spring, Jersey, Nest.js, Teiid, Thrift, Hibernate, PySpark
Build Tools	Maven, Gradle, Webpack
APIs/Libraries/Middleware	Kong, Keycloak, GraphQL, Apollo, RabbitMQ, Auth0, HashiCorp Vault, Google Maps
Deployment	Apache Tomcat, Glassfish, Wildfly, Heroku, AWS, Serverless, Google Cloud
Versioning/Issue Tracking	Git, Jira, TFS, Taiga
DevOps	Docker, Kubernetes, Jenkins, Bamboo
Web Development	Django, Angular, Node.js, React.js, HTML, CSS, MaterialUI, Bootstrap
AWS	EC2, Lambda, DynamoDB, SQS, SES, S3, ApiGateway, ElasticBeanStalk
Geospatial Solutions	ArcGIS Pro, QGIS, PostGIS, ArcMap, JTS, GeoTools
Operating Systems/Devices	Windows, Linux (multiple flavors), Raspberry Pi, Arduino

CERTIFICATIONS

2016 **Agile Software Development Using SCRUM**
Cert# PRUDSOL-SCRUM-0610216

RESEARCH PUBLICATIONS

2013 Cloud vector mapping using MODIS 09 Climate Modeling Grid (CMG) for the year 2010 and 2011.
Asjad Asif Jah, Yousaf Bin Farrukh, Rao Muhammad Saeed Ali
IOP Conference Series: Materials Science and Engineering - Volume 51 Asjad Asif Jah et al. 2013
IOP Conf. Ser.: Mater. Sci. Eng. 51 012029 doi:10.1088/1757-899X/51/1/012029
(<http://iopscience.iop.org/1757-899X/51/1/012029>)
Abstract also available at The SAO/NASA Astrophysics Data System.
(<https://ui.adsabs.harvard.edu/#abs/2013MS&E...51a2029J/abstract>)

LANGUAGE SKILLS

Urdu	Native Language
English	Advanced Level (TOEFL iBT Score: 116/120)