**ANANT TRIPATHI**

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| **Current CTC:** INR 36 LPA |  | **Preferred CTC:** INR 60+ LPA | |
| **Current Role:** Azure Data Solutions Architect  Team Lead (ION Corporate Automation & Data-lake) |  | | **Preferred Role:** Higher level  technical and/or managerial roles |
| **Current Location:** Noida, IN |  | | **Preferred Location:** Bangalore, IN |
| **Current Company:** ION Group ([www.iongroup.com](http://www.iongroup.com))  (previously known as [ION Trading](https://www.iontrading.com/) before acquisitions of [Fidessa](http://www.fidessa.com/), [Triple Point Technologies](https://www.tpt.com/), [Wall Street Systems](https://www.numerix.com/wallstreet-systems), [Reval](https://www.reval.com/), [Openlink](https://openlink.com/en/), [Aspect Ent](https://aspectenterprise.com/), [Patsystems](http://www.patsystems.com/), [Lab49](https://www.lab49.com/) etc.) |  | | **Preferred Company:** Any reputed product development company  **Notice Period:** 90 days  **Notice period buyout option:** No |
| **Experience in current company:** 7.5 years |  | | **Total experience:** 14.5 years |
| **Indian Passport:** Z5011329 |  | | **Phone:** +918800420778 |
| **Education:** B. Tech (Computer Sc & Eng.) |  | | **E-mail:** [anant13579@gmail.com](mailto:anant13579@gmail.com) |

**Introduction:** As Azure Data Solutions Architect, my primary job is to design and develop data analytics infrastructure using Azure services, to automate ION internal support systems, and to enforce [OGSM](https://www.smartinsights.com/marketing-planning/marketing-models/ogsm-model-framework/) framework across the company. I was internally promoted to this new position 2.5 years ago after considering my quick learning abilities, software-development skills, project-management skills, and customer-communication skills in [ION Markets Fixed Income division](https://iongroup.com/ion-markets/fixed-income/) in [ION Group](https://iongroup.com/). Previously, for 12+ years, I used to develop low latency C++, Java, and Robot testing-framework based software in [Algorithmic trading](https://www.investopedia.com/terms/a/algorithmictrading.asp#:~:text=Algorithmic%20trading%20is%20a%20process,to%20the%20market%20over%20time.) in Finance domain.

**Skills proficiency:**

1. Able to cope up with priorities, deadlines, project management, inter-teams and customer communications.
2. Able to design and develop Azure based Data Solutions using Azure Functions, Azure Container Instances, Event hubs, Azure machine learning services, Databricks, Data Factories, data lake, Stream Analytics, Azure Automation, SQL Servers, Key Vaults, Azure data-catalogs, Azure Active Directory, Graph API, Power BI on-premises data-gateways and online services (like datasets, dataflows, dashboards, workspaces, apps, etc.) etc.
3. Able to design and develop solutions using Docker swarms, containers, images, secrets, Portainer, etc.
4. Data science & analytics using Power BI, SQL, DAX, Python, R.
5. Machine Learning (ML) and Natural Language Processing (NLP) using Facebook® Fasttext library, Azure LUIS.
6. Azure apps development using C#, Python, and Powershell cmdlets scripts.
7. 12+ years’ experience in software product development in Python, C, C++, C#, Java, Robot Framework, Object oriented programming (OOP), DevOps, CI/CD, Jenkins, Silverlight, HTML5, AngularJS, FIX, Algorithmic trading, etc. technologies using agile/scrum practices.

**Current Profile:**

1. Leading a development-team (3 developers in India, 2 in USA, and 1 in UK offices) including 2 direct reportees in India office. The team follows SCRUM and JIRA KANBAN boards; and,
   1. Develops-and-maintains various drivers in Python and R to fetch, normalize, and ingest data from multiple data-sources (ranging from JIRA, Remedy, Aha!, Lever, Concur, Eloqua, Salesforce, Excel sheets etc. to many on-premise data-ware houses) into ION data-lake (ION’s Azure SQL Servers and DBs to host normalized data for quick data-analysis).
   2. Creates Power BI reports on ultra-sensitive cross-business verticals datasets for top level leadership.
   3. Manages docker swarm nodes, CRON schedules, Power BI on-premise data-gateways, Power BI premium capacities, and integrated Azure services (like Data Factories, Databricks etc.).
   4. Manages Azure Data Catalog for supported ION datasets registrations and taxonomies.

**Technologies used:** Python, R, Docker Swarm, Azure SQL Server, Azure Data lake, Azure Data Factory, Azure Databricks, Power BI, Power BI dataflows, Powershell cmdlets, SQL, DAX, REST, JSON, XML, Postman.

1. Sole developer/maintainer of Azure real-time machine-learning pipeline integrating Atlassian JIRA system for real-time data-analytics and solution-predictions for internal IT support issues. Now, this pipeline uses NLP techniques (Facebook® Fasttext library) to classify internal support-tickets into different support-queues.

**Technologies used:** C#, Python, Azure Functions, Azure Stream analytics, Azure Jupyter Notebook, Azure machine learning services, NLP, Fasttext, LUIS, Power BI, SQL, DAX, Atlassian® JIRA webhooks.

1. Developer/maintainer of Azure based automated data-access approval workflow integrating Azure ML pipeline to Microsoft Exchange Server to add new members into O365 mail-enabled security-groups, which are used to grant access to ION data-lake resources. When ION employees raise JIRA tickets to request access to pre-defined datasets, this workflow auto-sends emails to datasets owners to arrange access-approvals; and when approved, this workflow communicates to Microsoft Exchange Server using Powershell cmdlets to add those requesters into O365 mail-enabled security-groups.

**Technologies used:** Atlassian® JIRA mail-approval feature and webhooks, C#, Azure Functions, Azure Stream analytics, Power BI, SQL, DAX, Powershell cmdlets.

1. A few important data-ingestion drivers I have developed originally,
   1. MS Graph driver – This driver fetches O365 audit logs, user profiles, IT Licenses, and other sensitive stuff from Azure using MS Graph APIs and ingests those data into Azure SQL servers.
   2. Lever driver – This driver makes REST APIs calls to fetch Opportunities, Candidates, Postings etc. data from Lever portal using REST APIs and ingests those data into Azure SQL servers (i.e. ION data-lake).
   3. Power BI Audit logs driver – This driver is written using Powershell cmdlets and is deployed on Azure Automation jobs to periodically fetch Power BI audit logs from Azure and to ingest those logs into Azure SQL servers.
   4. JIRA user profiles and worklogs – These drivers fetch data from Atlassian® JIRA portal using REST APIs and ingest those data into Azure SQL servers.
   5. BMC Remedy driver – This driver fetches support tickets from BMC Remedy portal using REST APIs and ingest those data into Azure SQL servers.
2. Promoting big-data analytics and machine-learning culture within organization through online-sessions, workshops, and case-studies.

**Previous profiles:**

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| **When** | **Company -> Team** | **Projects** |
| Sep’2013 – Dec’2018 | [ION Group](https://iongroup.com/) -> Foreign Exchange, Rates, and Credit (FRC) division | Development, maintenance, and support of various market-side features like price contribution, Request-for-quotes (RFQ) and order negotiation, and straight-through processing (STP) of trades in,   1. ION dealer-to-customer (D2C) gateways: ION gateways connecting D2C markets like Bloomberg, Tradeweb, MAXESS, Yieldbroker, Bond Point etc. for Bonds, IRS, and CDS asset-classes. 2. ION single dealer platform (SDP): SDP Trade Workflow Engine (TWE) for trade-matching, buy-side and sell-side gateways of SDP Bond, IRS, and CDS asset-classes for price contribution and RFQ negotiations. 3. ION FX gateways: ION gateways connecting many high liquidity provider markets.   **Technologies used:** C++, Java, HTML5, AngularJS, Silverlight, Robot framework, Jenkins, FIX, ATTD, Visual Studio IDE for C++, Eclipse IDE for Java. |
| Jul’2009  -  Aug’2013 | Independent software-development consultant (with brand-name [Maffick Consultancy Services](https://www.apollo.io/companies/Maffick-Consultancy-Services--www-maffickcs-com-/54a1383169702d9d8d631c00%3F__cf_chl_jschl_tk__=63fc5c32eb04aecf34974a2cb7b9ffc3eac55ab5-1580583921-0-AdODTKtTFDrHVohtr0XjDPSD_9zMFvuVnshROI86AvbiViTpREo8hPEMgMlAfxNn6UDFUpodbIfZIr_PwQnrWtGVUC81k6P7WlZaLoz8ZFScRzwOa_JIdiGRrh5_SwnSm-Micgtkx8WkC00cX9La6jdIc24a5IahLd-lJswDY-jEMICnogYoQqkBaFH7eXFS-sIyagxxvtZPpZ31F3tRAXA4ue4tuHgm1xc4j7Y3_wRlAmjTLtbfcbShruBPjgf9f3GFQWNd30TjnDvQl5CoQqTJBihA-inINvM4yQUUrVB7SH_d7N0NkPIlW48Nspwt0a_TBAa8otxbMNvI7oT5IndqifI01eYMPQ_K6OLAj9muEewCoKFhXq6Jvp1l4ugU4VgfgcXpHH-wHO9724kSwaqMRSw64uYnJzttuL-cSLDUv2bcJrmYlw6VfqyPa0Dsag?chart=count)) | 1. Worked primarily with [Opalit Solutions](https://www.opalit.com/), France for many large projects like distributed Monte Carlo clustering framework, Middleman messenger, Graphical XML parser etc. 2. Worked with Realtime Systems, Germany for few market-indicators and automated trading tools. 3. Worked on few freelanced projects.   **Technologies used:** C, C++, C#, Silverlight, Win32, WPF, XAML, Socket programming. |
| Jan’2009  -  Jun’2009 | [RTS Realtime Systems Group](http://www.marketswiki.com/wiki/RTS_Realtime_Systems_Group), Frankfurt, Germany (later acquired by [Bloomberg](https://www.bloomberg.com/)) | I was responsible for developing new communication-server architecture to meet future challenges of business. My main responsibilities included,   1. Performance-improvements of various DB Servers, 2. Replacement of NIHCL by STL, 3. Failover Server management.   **Technologies used:** C, C++, C-IASM. |
| Sep’2007  -  Dec’2008 | [Futures First](https://futuresfirst.com/) (proprietary trading arm of [GH Financials](http://www.ghfinancials.com/en), a top clearing firm in UK) -> Algorithmic Trading & Technologies Solutions (ATTS) team. | 1. Pseudo Trading Interface: I wrapped some third-party trading-interface’s API into .Net based Pseudo Trading Interface API, which was a standard single-threaded wrapper trading interface. The objective of this project was to decrease time, cost, and skills complexities during development of Automated trading tools, so that, those can be run independently of their underlying basic trading-interfaces. 2. Arbitrager: An automated trading-tool, which implemented a very general profit-strategy named Arbitrage. This tool used to take any two specified contracts and spreads between those two contracts and used to monitor arbitrage cases to hit prices.   **Technologies used:** C, C++, C#, Win32, WPF, Silverlight. |
| Jul’2006  -  Aug’2007 | Creative Computer Institute (shutdown in 2008) | Worked in a startup company on small-scale software-development and training/internship domain.  **Technologies used:** C, C++, C#. |

**Internship:** 3 months summer internship at [ERNET](https://www.ernet.in/), Ministry of Electronics & Information Technology, Govt. of India, New Delhi, India. Project: IPv6/IPv4 enabled Chatting Software Using Visual C++ 6.0 and Windows Socket API 2.0