Ryan Sequeira

Education

2016–2018 **Masters of Technology, Computer Science and Engineering Department**, *Indian Institute of Technology* , Patna, *CGPA – 9.61*.

Relevant Course work: Network Science, Artificial Intelligence, Natural Language Processing, Deep Learning

2008–2012 **Bachelor of Engineering, Information Technology**, *University of Pune*, Pune, *Percentage – 66.73%*.
First Class with Distinction

Relevant Course work: Design and Analysis of Algorithm, Data Structures, Computer Networks, Theory of Computation

2008 **Higher Secondary Education**, *Maharashtra State Board of Secondary and Higher Secondary Education*, Pune, *Percentage – 76.00%*.
First Class with Distinction

2006 **Secondary Education**, *Maharashtra State Board of Secondary and Higher Secondary Education*, Pune, *Percentage – 78.66%*.
First Class with Distinction

Areas of Interest

Network Science

Deep Learning

Stochastic Models

Publications

2019 A Large Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets [*IEEE Transactions on Computational Social Systems*]

2021 Joint Localization and Radio Map Generation using Transformer Networks with Limited RSS Samples [*IEEE International Conference on Communications Workshops*]

2019 A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems [*IEEE Systems Journal*]

2019 Where Should One Get News Updates: Twitter or Reddit [*Online Social Networks and Media*]

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M.Tech Graduate, Computer Science and Engineering Department, IIT Patna

Awards and Achievements

2018 Institute Silver Medal IIT Patna for the academic year 2017-2018 M.Tech CSE for Standing 1^{st} in M.Tech CSE Department

2018 Institute Proficiency Prize IIT Patna for the best Project Work in M.Tech CSE Department

2016 All India Rank 719 - Graduate Aptitude Test in Engineering

Work Experience

2013–2016 **Senior Software Engineer**, Persistent Systems Limited, Pune.

Worked as Big Data Developer, with experience in open-source technologies like Hadoop (distributed file system and cluster-computing framework), Apache Cassandra (distributed NoSQL database) and Apache Spark (distributed in-memory cluster-computing framework).

Palerra LORIC Cloud Security framework

Palerra LORIC, a SAAS product, provides threat detection, predictive analytics, security configuration management and automated incident response and remediation into a single solution for cloud applications such as Microsoft Office 365, Salesforce to infrastructure like AWS.

Contributions:

- Actively contributed to the back-end data ingestion and data processing framework.
- Designed proof of concepts to test cloud application integration with the framework.
- Improved the framework by optimizing the code and fixing critical bugs.
- Independently explored cloud applications and Cassandra NoSQL database and facilitated their implementation through knowledge sharing.

TNPM Product Engg India Pune SEZ

Test and Benchmark different Databases as a replacement to Oracle, to reduce the cost and improve performance (i.e. latency due to data aggregation) for querying time-series data. The project required comparing databases and after a preliminary feature comparison enlist a candidate for each of the categories, to be tested and benchmarked. KairosDB, an open-source database was selected as a replacement.

Contributions:

- Performed a detailed feature to feature comparison of the in-memory databases, in-memory data grids, columnar databases and time-series databases.
- Validated and Rejected certain claims made by the different products.
- Contributed to the testing and benchmarking framework.

Computer skills

Programming Languages

Basic	SCALA
Intermediate	C
Advanced	JAVA, PYTHON

Tools

Intermediate	Hadoop, Apache Spark, REST, Amazon Web Services (AWS), MySQL
Advanced	Cassandra, Linux, Git, Maven

Languages

English	**Advanced**	
Hindi	**Advanced**	
German	**Elementary**	*Basic words and phrases only*
Konkani	**Mother-tongue**	

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