

# Ryan Sequeira

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## 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

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

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

Contribution 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*

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## Awards and Achievements

- 2018 Institute Silver Medal IIT Patna for the academic year 2017-2018 M.Tech CSE for Standing 1<sup>st</sup> 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

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## 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.

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## 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	<b>Advanced</b>
Hindi	<b>Advanced</b>
German	<b>Elementary</b>
Konkani	<b>Mother-tongue</b>

*Basic words and phrases only*

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