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Ryan Sequeira

Curriculum Vitae

Profile

Former research scholar with three years of experience in Deep Learning, NLP and Network Science. Experienced in working with large and distributed teams as a backend developer, integrating cloud applications on a cloud security project.

Experience

Jan 2013 – Jul 2015
Pune, India

Senior Software Engineer
Persistent Systems

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

Achievements:

- Contributed to the backend data ingestion and data processing framework from cloud applications like AWS (CloudTrail), Box and Salesforce.
- Contributed to the automation framework using the native cloud application's REST API. This enabled users to apply recommended security settings on their cloud apps directly through LORIC.
- Contributed to the LORIC Java REST API used by the front-end to query relevant information from the NoSQL dababase (Cassandra) and populate the dashboards.
- Improved the framework through code optimization, critical bug fixing and implementing requested feature.

TNPM Product Engg India Pune SEZ
Test and Benchmark in-memory, distributed and open-source databases as a replacement for Oracle Database to reduce the cost and improve performance (i.e. latency due to data aggregation) of drill down analysis of time-series data. After a preliminary feature comparison and benchmarking 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.

Education

Jul 2018– Jul 2020
Patna, India
Indian Institute of Technology Patna
Ph.D. in Computer Science and Engineering
Not Continued

Jul 2016– Jul 2018
Patna, India
Indian Institute of Technology Patna
Masters of Technology in Computer Science and Engineering
CGPA 9.61, Rank 1

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

Jul 2008– Jun 2012
Pune, India
University of Pune
Bachelor of Engineering in Information Technology
First Class with Distinction

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

Jul 2016 – Mar 2008
Pune, India
Maharashtra State Board of Secondary and Higher Secondary Education
Higher Secondary Education
First Class with Distinction

Jul 2016 – Mar 2008
Pune, India
Maharashtra State Board of Secondary and Higher Secondary Education
Secondary Education
First Class with Distinction

Sabbaticals

Jul 2015 – Jun 2016
Preparation for Graduate Aptitude Test in Engineering (GATE) 2016. Secured AIR (All India Rank) of 719.

Jul 2020 – present
Personal reasons (during COVID-19 lockdown Mar 2020 – Oct 2020). Currently looking for Machine Learning based jobs.

Publicatons

Jul 2021
SELE: RSS Based Siamese Embedding Location Estimator for a Dynamic IoT Environment [*IEEE Internet of Things Journal* (Scopus cite score: 12.6)]

Jun 2021
Joint Localization and Radio Map Generation using Transformer Networks with Limited RSS Samples [*IEEE International Conference on Communications Workshops* (h5-index: 25)]

Oct 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* (Scopus cite score: 3.9)]

Jul 2019
A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems [*IEEE Systems Journal* (Scopus cite score: 7.4)]

Jan 2019
Where Should One Get News Updates: Twitter or Reddit [*Online Social Networks and Media* (Scopus cite score: 4.1)]

Awards and Achievements

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

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

Mar 2016
All India Rank 719 - Graduate Aptitude Test in Engineering

Dec 2014   2nd Runners up in Race2Insights Analytics Competition – Persistent Systems
Limited

Computer Skills

Programming Languages

Advanced   JAVA, PYTHON

Tools

Intermediate   SQL, NoSQL, Git, Amazon Web Services (AWS), Maven
Advanced   Tensorflow, Keras, NetworkX, REST

Technologies

Intermediate   Linux, Cassandra, Hadoop

Languages

English   Advanced
Hindi   Advanced
German   Elementary   *Basic words and phrases only. Studied as part of high school curriculum*
Konkani   Mother-tongue