# Ranji Raj Nair

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## Social Network ———

▶ YouTube Channel

in Linkedin Profile

○ Github Profile

## Languages —————

🇩🇪 German ● ○ ○ ○ ○
🇺🇸 English ● ● ● ● ●

## Programming Skills –

✎ Python ● ● ○ ○ ○
✎ R ● ● ○ ○ ○
✎ Java ● ● ○ ○ ○
✎ Tableau ● ○ ○ ○ ○
✎ SQL ● ● ● ○ ○

## Soft Skills —————

✎ Teaching ● ● ● ● ○
✎ Communication ● ● ● ○ ○
✎ Analytical ● ● ● ○ ○
✎ Story Telling ● ○ ○ ○ ○

## Other Competencies -

✎ Machine Learning ● ● ● ○ ○
✎ Deep Learning ● ● ○ ○ ○
✎ Keras ● ○ ○ ○ ○
✎ Tensorflow ● ○ ○ ○ ○
✎ Linux ● ● ● ● ○
✎ Docker ● ● ● ● ○
✎ Kubernetes ● ● ● ○ ○

# Working Experience

| 2016 – 2018 | **QualityKiosk Technologies Pvt.Ltd.** Role: Test Engineer |
| | Virtualization of services for various private banking applications by creating mock responses and stub creation using licensed and open source tools to test web services. Performed system monitoring to determine the performance bottlenecks through client coordination. |

# Education

## Study Programmes

| 2019 – pursuing | **Master Studies** Otto von Guericke University |
| | Focus: Data and Knowledge Engineering |

| 2012 – 2016 | **Bachelor Studies** Datta Meghe College of Engineering |
| | Focus: Information Technology |

| 2000 – 2012 | **Primary and Secondary Schooling** SIO's Vani Vidyalaya |

# Projects

| Master | emojivoto - a simple example application containing three dockerized microservices and a website. Website illustrating list of emojis you can vote for and a leaderboard with the emojis with the highest votes with the full-fledged application running on SysEleven cluster.(Application environment was on Linux, Ubuntu 18.04 distribution. Kubernetes components used: Ingress, Helm, Pods, Deployments, Services, Horizontal Pod Autoscaler) |
| Master | Android application to detect morphed passport images. (Development of Android application called 'Demorpher' which takes the user image and compares with a pre-existing morphed image. The resultant would produce the demorphed image with matching accuracy.) |
| Work | Service Virtualization of Banking Services at Techprocess Pvt.Ltd. |
| Work | Scalability and Load Testing at HDFC Bank |
| Bachelor | Information Retrieval using Web Search Engine Optimization |
| Bachelor | E-commerce website using PHP with connection to PayPal SandBox |
| Bachelor | Coffee shop website development |

# Research Papers

| 2020 | **Android Application for detecting morphed passport images** |
| | *Otto von Guericke University* |
| | Demonstrating how a live image of the user face acquired at uncontrolled environment, can be used to restore the de-morphed image from the morphed image stored in the travel document. |
| 2019 | **Bio-metric benchmark based on Handwriting and Hand Geometry Modalities** |
| | *Otto von Guericke University* |
| | Identification of inter-class and intra-class variance including the impact of forgeries concerning security aspect. |

# Awards

| 2017 | Knowledge Transfer session | QualityKiosk Technologies |
| 2016 | Student of the Year | Datta Meghe College of Engineering |
| 2015 | Second rank Academic Performer | Datta Meghe College of Engineering |

# Ranji Raj Nair

## Other Mentions ———

- ✈ Mentioned in Mumbai Mirror
- ✈ Student Seminar

# Publications

| | |
|---|---|
| 2018 | **Computer Organization and Architecture**<br>*TEK97*<br>Book on Microprocessor Architecture and Techniques |
| 2018 | **Analysis of Algorithms**<br>*TEK97*<br>Book on common data structure algorithms |
| 2017 | **Structured Programming Approach**<br>*TEK97*<br>Book on Basic C language practices |
| 2017 | **Operating Systems**<br>*TEK97*<br>Book on internals of OS |

# Certifications

| | | |
|---|---|---|
| 2020 | **Time Series Analysis with R** | Great Learning Academy |
| | Basics of time series analytics, Approaches used for Time Series forecasting, Decomposition Method, Irregularity in decomposition, Model Forecast theory, Exponential Smoothing function. | |
| 2020 | **Introduction to R Programming** | Udemy |
| | Basics of tibble, vectors, matrices, ggplot2, and other data visualizations. | |
| 2019 | **Introduction to Python Programming** | MySirG.com |
| | Basics of python data types and data structures, flow control and iterative control, Object-oriented concepts in Python. | |
| 2015 | **Oracle Certified Professional Java SE 6 Programmer** | Oracle |
| | Core and advanced concepts in Java related to internals of JVM. | |