

Rakesh Nagaraju

San Jose, CA- 95110 || Phone: (669)-288 4508 || Website: <https://rakesh-nagaraju.github.io>

LinkedIn: www.linkedin.com/in/rakesh-nagaraju || Github: [Rakesh-Nagaraju](https://github.com/Rakesh-Nagaraju) || Email: rakesh.nagaraju.220594@gmail.com

EDUCATION

Master of Science in Computer Science, San Jose State University, CA, USA (**GPA: 3.58**) **Spring 2021**
Coursework – Machine Learning, Artificial Intelligence, Cryptography, Wireless Networks, Advanced Parallel Processing, Database System Principles, Algorithms, Distributed Computing.

Bachelor of Engineering in Computer Science, NMIT, Bangalore, India (**GPA: 8.05**) **May 2016**

SKILLS

- **Languages and Frameworks:** Python, C, C++, Java, Swift, SQL, COBOL, JCL, Junit, Shell Scripting, OpenMP.
- **Front-End:** JavaScript, HTML, CSS, CICS.
- **Wireless Networking:** 2G, 3G, 4G, 5G, wireless sensors, IoT.
- **Big Data Frameworks:** Apache Hadoop, Apache Spark and Apache Hive, Flume, HBase
- **Database Management Systems:** Microsoft SqlServer, DB2, Oracle, MySql, Postgresql
- **Cloud:** OpenStack and AWS EC2, RDS, S3
- **Machine Learning/ Security:** GAN's, CNN, ML/ Cipher algorithms, Scipy, TensorFlow, Keras, Pytorch, OpenCV, OpenCL.
- **Tools:** Grpc, Zookeeper, CUDA, Android Studio, Git, MS Office, macOS, Windows, Linux/Ubuntu, Jenkins, Maven.

WORK EXPERIENCE

Associate Consultant, Capgemini India Pvt Ltd- Bangalore, India **Nov 2016 - Aug 2019**
Worked as a Software developer for a Banking client to develop online and backend DB2 applications using JAVA, and Mainframes.

Technical Aspect: I worked as a Lead Engineer to build banking applications.

- Experience working in an Agile/Scrum development process.
- Performing unit and regression testing, White box and Black box testing.
- Provided QA Assistance, UAT support, created functional designs and User story estimation by analyzing Business Requirements
- Building and Running DB2 Server queries.
- As **Senior Software Engineer**, indulged in major enhancements to existing applications, related to DB2 in Agile methodology.
- Debugging existing code to improve performance and handle production issues.
- Automated tasks to manage monthly metrics, identifying and handling repetitive CR's using Python.
- As a **Software Engineer** built backend software applications using the Waterfall model.
- Performed documentation, review checklists, and generated yearly XML Reports.
- Trained in JAVA, Mainframes, and got certified in "IBM certified DB2-9 Fundamentals".

Academic Projects

Link: <https://github.com/Rakesh-Nagaraju>

- **Malware detection using AC-GAN (Spr 2021):** Convert Malware to images and then apply ACGAN to generate fake data from the generator and for accurate classification with the discriminator model.
- **Machine Learning Model for Breast Cancer Classification (Fall 2019):** Trained seven algorithms on a "Wisconsin Breast Cancer" dataset while generating ROC and PR curves and comparing performances.
- **Cryptography and Information security Projects (Spr 2020):** Understanding and implementation of A5/1, PKZIP, AES, DES, TEA, Knapsack, RSA, Rabin cipher.
- **COVID-19 Data Analysis using Hadoop and Spark (Spr 2020):** Performed Trend and Sentiment analysis using Hive, Spark on COVID-19 tweets extracted using Flume, stored using HDFS, and analyze performances.
- **Real-time Pedestrian Detection (Fall 2019):** Designed a model to detect pedestrians in real-time while achieving an accuracy of 79.8mAP using PyTorch, CUDA and run on AWS EC2 instance.
- **Distributed Computing Projects (Fall 2019):** Implemented ABD, Chain Replication, and RAFT protocols for handling Client-Server communication utilizing Google gRPC, Python, Java, Zookeeper, and Kazoo.