

Sai Teja Karnati

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EDUCATION

- **University of Illinois at Chicago** Chicago, IL
Master of Science in Computer Science; GPA: 3.90 Aug. 2019 – May. 2021
Courses: Cloud Computing, Advanced Machine Learning, Deep learning in NLP, Computer Vision, Neural Networks
- **Birla Institute of Technology and Science, Pilani** India
Bachelor of Engineering in Computer Science Aug. 2013 – June. 2017
Courses: Data Structures, Advanced Algorithms, Object Oriented Programming, Information Retrieval, Databases

EXPERIENCE

- **Full Stack Developer, RA** Apr 2020 - Present
University of Illinois at Chicago Chicago, IL
 - Developed multiple database-driven websites for UIC's literacy programs in **React, Spring Boot and MySQL**.
- **Deep Learning Intern** Aug 2020 - Jan 2021
Yale University New Haven, CT
 - Built a tool to help my work flow by converting terabytes of Genome datasets to structured VCF files for analysis.
 - Worked on a new CNN architecture to study Genome variations.
- **Software Engineer** Jul.2017 - Apr. 2018
Zenoti India
 - Designed and developed a highly customizable Feedback system, used a lot across Customer Web front, Billing and different Zenoti customer devices (**ASP.NET, JavaScript, AJAX, C#, JQuery**).
 - Implemented Stored Procedures, API functions, and integrated in an Ajax, .NET Server-Client Architecture.
 - Responsible for new critical features like GST, Employee Tab, Group Billing, Google Home integration.
 - Fixed over 100 bugs in Jira with challenging sprints in an Agile Scrum workflow.
- **Software Development Intern** Jun. 2016 - Jan. 2017
Dell EMC India
 - Initiated and demonstrated an alternative solution using Docker to deliver our core product 20 times faster.

PROGRAMMING SKILLS

- **Languages:** Python, Java, Scala, JavaScript, SQL, C++, C#, HTML, Ajax
- **Frameworks:** Docker, ASP.NET MVC, React, Spring Boot, SBT, SL4J, Jira, GIT, MapReduce
- **ML Libraries:** Pytorch, Pandas, Numpy, TensorFlow, Scikit-Learn, OpenCV, SciPy
- **Platforms:** AWS, S3, EMR, Hadoop, Apache Spark, Kafka, Sagemaker, Git, Elasticsearch

PROJECTS

- **Engineering Distributed Objects for Cloud Computing** 2020
 - Created simulations of SaaS, PaaS and Hybrid Datacenters for Map/Reduce tasks with optimal polices.
 - Implemented Hadoop Map/Reduce over large XML Datasets for analysis in AWS EMR. (Elastic Map Reduce).
 - Created CAN and CHORD (Distributed Hash tables) for storing large datasets with cluster sharding in Scala.
- **Semantic Inpainting using DCGANs and Contextual Encoders** 2020
 - Reconstructed images with heavy damage with minimal loss using DCGAN and Contextual Encoders model.
- **Summarization and Sentiment analysis of Reviews** 2020
 - Built RNN, LSTM, and BiLSTM over Google's BERT based Models for analysis(Over 2.2 Million reviews)
 - Used Centroid based Clustering Method for summarizing over Bert Model (Compression: 15%)
- **Movie recommendation system using Collaborative filtering** 2016
- **Stock Market forecasting (Ensemble, BiLSTM, XGBoost)** 2019