

AMIT KANWAR

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<https://aminoid.github.io/portfolio>

EDUCATION

North Carolina State University

M.S. Computer Science

August 2016 – May 2018 (Expected)

Major GPA: 3.83/4

BITS Pilani, India

B.E. Computer Science

July 2010 - June 2014

Major GPA: 7.2/10

COURSES

Design and Analysis of Algorithms, Operating Systems, Database Systems, Computer Networks, Cloud Computing, Data Intensive Computing, Distributed Systems, Foundations of Data Science, Algorithms for Data Guided Business Intelligence

WORK EXPERIENCE

Software Developer

Google Summer of Code

May 2017 – August 2017

- . Developed a mobile app for both iOS and Android to keep track of Real Time User Activities, calculate Carbon Footprint based on that and share it among friends.
- . Used React-Native, Redux and Firebase.

Student Developer

Laboratory for Analytic Sciences

April 2017 – Dec 2017

- . Developed a Pre-Publication [web platform](#) for students to get research papers reviewed from professors before submitting
- . Used Angular Material and Flask

Software Developer

Aruba Networks Pvt. Ltd

June 2014 – July 2016

- . Developed the new CLI infrastructure for ArubaOS 8.0 for configuring multiple controllers using Single VM
- . Developed a MEAN stack based [web application](#) to keep track of controllers and switches used by our team (GLaDOS)
- . Developed python scripts to automate the debugging process for ArubaOS 8.0

SKILLS

Programming

C, Python, R, Java, JavaScript, Ruby, AngularJS, ReactJS, React Native, Redux

Other Technologies

LAMP, MEAN Stack, Flask, Ruby on Rails, SQL, AWS, Docker

PROJECTS

- **Garfield:** Developed a data pipeline which streams a large number of news articles through AWS Kinesis (2000/min), uses AWS Lambda to classify using an ML model while indexing and storing them into AWS Elasticsearch and AWS S3.
- **Key Value Pair File System:** Developed a secure key value pair file system like Google FS as a part of our OS course. ([link](#))
- **Twitter Sentiment Analysis using Kafka and Apache Spark:** Processed live twitter stream using Kafka and Apache Spark and did basic sentiment analysis on it. ([link](#))
- **Music Recommender System:** A Recommender System that will recommend new musical artists to a user based on their musical history. Used a pre-cleaned dataset and implemented ALS and DeepWalk using Python ([link](#))
- **SCREAM:** Independent Study on the design of a new Community Detection Algorithm SCREAM. Used Twitter Data (on technology related topics) from January 2012 and correlated with posts from websites like TechCrunch, Wired, CNET etc. to study Community Evolutions.
- **Quora Question Pairs:** Kaggle Competition to improve upon Quora's algorithm to identify questions with same intent. Calculated Cosine Similarity, TF-IDF based Cosine Similarity and Jaccard Similarity between questions and used Decision Trees, Random Forests, Logistic Regression and Naïve Bayes' Ensemble to create a Model.
- **The Nature Fisheries Conservancy Monitoring:** Kaggle Competition to classify species of fish in the images. Used Keras InceptionV3 model with weights trained on ImageNet and added Softmax, Relu layers on top to get a 8 class Probability Vector based on 8 classes in the dataset and a bag-of-visual words approach (SIFT + KMeans + KNN). ([link](#))
- **React-native-activity-recognition:** Developed react-native-activity-recognition from scratch and made it [open source](#).
- **YouTubePlaylistDownloader:** Developed it using YouTubeAPI and python ([link](#)).