

NIKHIL METTUPALLY

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EDUCATION

M.S. in Computer Science **University of Alabama in Huntsville**

GPA: 3.9/4.0

Aug 2016 – Dec 2018

B.E.(Hons.) in Electronics and Communications **BITS Pilani, India**

CGPA: 3.0/4.0

Aug 2011 – May 2015

SKILLS

Programming

C

Python

C++

Java

HTML/CSS

SQL

JavaScript

Developer Tools

CUDA

Tableau

TensorFlow

Keras

KNIME

Visual Studio

MATLAB

IXIA

Key Courses

Machine Learning

Data Mining

Big Data Analytics

Neural Networks

Database







Artificial Intelligence and Game Development

Software Engineering

Computer Networks

Cryptography

PROJECTS

-  **Chat Application:** Built a C++ based chat application to broadcast/receive text messages via server to multiple clients using visual studio
-  **Food Ordering and Restaurant Finder:** A web-based application to find restaurants based on cuisines and order food. (Technologies used: SQL, PHP, JavaScript, HTML, CSS)
-  **Command Line Game:** Created a basic pac-man like game that runs in the windows command line and improved the game further to a minimal GUI using Visual Studio. (Technology used: C++)
-  **Visualizing time-series data using D3js:** Created two visualizations to represent the vehicle dataset provided by the Visual Analytics Community using D3js, python.
-  **Software Engineering Case Study:** Analyzed and designed requirements for software applications. Prepared use cases, test cases to verify their integrity and functionality. Applications include Square Cash, Wells Fargo Mobile, Skype.
-  **EEG Signal Processing using MATLAB:** Processed the raw EEG signals, Classified the signals using machine learning technique SVM and obtained classification rate of 95%. (Technology used: MATLAB)

EXPERIENCE

Graduate Teaching Assistant **University of Alabama in Huntsville**

Jan 2018 – Present

- Responsible for grading and assisting undergraduate students in Algorithms (CS317), Data Structures (CS221), Unix (CS390) and Operating Systems (CS490) courses

Research & Development Engineer **NOKIA, Bangalore, India**

Jul 2015 – Jul 2016

- Responsible for the Integration and Verification of the Transport Module in SRAN (Single Radio Access Network) Team. Experience working in an agile environment with test-driven development.
- Part of the SRAN Automation team, worked on ROBOT (Automation framework) and developed libraries in python to test the Web-based software. Key involvement in test case automation.
- Worked on telecommunication features such as LTE protocol stack, QoS, IPSec, IP traffic measurement techniques, User equipment(UE) Handover scenarios, Load balancing and Power optimization.
- System robustness testing using IXIA traffic generators for transport protocols
- Installed and tested the MACG (Massive Android Call Generator) Server to make remote test calls.
- Experience with configuring firewalls, Cisco switches, routers and Unix based SUN-servers.

Project Trainee(Intern) **Center for Artificial Intelligence and Robotics (CAIR), India**

Jul 2014 – Dec 2014

- Empirical evaluation of Convolutional Neural Networks (CNN) on large scale videos using image datasets in application to Human Activity Analysis.

PUBLICATIONS

- Mettupally, Nikhil and Dr. Vineetha Menon (2018). "InstaPark-Smart Parking Solution". In: **4th Annual Research Horizon Day, Appeared in April, Secured first place and Science and Technology Open House 2018, Montgomery, Appeared in September, Secured second prize in Master's division.**