

# AMIT GUPTA



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## Skills

### PROGRAMMING LANGUAGES

C

C++

Java

Python

### WEB TECHNOLOGY

HTML5

CSS3

Javascript

JQuery

Ajax

D3

Bootstrap

Express

Nodejs

MEAN

### DATABASE

MySQL

Mongo DB

### TECHNOLOGIES

Spark

MapReduce

Kernel Programming

Tensorflow

RNN

Selenium

Cucumber

Testng

## Education

SUNY, Stony Brook  
MS 2017

Courses: Operating Systems, Computer Networks, Analysis of Algorithm, Big Data Analytic, Distributed Systems, Natural Language Processing, Visualisation(Big Data)

National Institute Of Technology, Bhopal  
B.Tech 2012

Courses: Algorithms and Data Structures, DBMS, Computer Networks, Data Mining, Unix Internals

## Employment

Nomura America Securities LLC New York  
Technology Summer Analyst Jun 2017 to Aug 2017

- Automation of regression testing ( proprietary tool for equity management) using Cucumber and Selenium
- Responsible for designing and development of the whole software suite. Implemented using multithreading and parallel processing concepts from Java 8.
- Bash script migration to python

Samsung Research Institute, Noida Noida, India  
Software Engineer Jul 2012 to Aug 2016

- Involved in development and debugging of networking protocol related features.
- Developed different Interprocess communication commands viz. setting a particular frequency band, controlling the specific logging feature etc.
- Involved in the development and stabilization of principal stack selection mechanism in a dual sim phone.
- Fixed several bugs which come during standardization process (GCF/PTCRB )
- Awarded with **Certificate of Excellence** for significant contribution to the projects.

CAIR, Defense Research & Development Organisation Bangalore, India  
Intern May 2011 to Jul 2011

- Studied several research paper on informed search based planning algorithm such as A\*, D\*, D\* Lite.
- Implemented D\*Lite algorithm in C++ and simulate it with Robot Operating System.

## Projects

### Byzantine Fault Tolerant Chain Replication: Shuttle

Creating a prototype for the Chain replication model using shuttle protocol as described in the paper

### TrFS: A stackable tracing file system

Created a tracing file system for kernel 4.0 below the VFS layer that will log some particular set of system call (e.g. open, read, write etc.) which can be used to reiterate the steps performed by the user.

### Xmergesort-Custom System call

Implemented system call that will take two files from user space and merge them based on the lexicographic order of the content in kernel space and create another merged file in user space

### History based webpage caching system in android

Created a web-page caching server to support the client with poor connectivity. The server caches the pages for the client(Android) and then transfer these cached pages over WebSocket(fast) to the android phones.

### MEAN Stack based webapp for college

Created a MEAN stack based portal for college which will help the instructor in automated evaluation of programming assignments.It can keep track of the all the submission of the student's assignment under various courses.

### Movie Genre Classification using RNN

Created an RNN based model to classify the movies based on their plot summary.We employ skip-gram based word embeddings to train the RNN and used it further for classification