

RAHUL JAIN

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EDUCATION

Texas A&M University (TAMU), College Station, Texas

Master of Science in Computer Science

GPA: 4.0/4.0

May 2017

National Institute of Technology Kurukshetra (NIT KKR), Kurukshetra, Haryana

Bachelor of Technology in Computer Engineering

Overall GPA: 4.0/4.0

May 2013

RELEVANT COURSEWORK

Data Structure

Object Oriented Programming

Design and Analysis of Algorithm

Database Systems

Software Engineering

Artificial Intelligence

Machine Learning

Information Retrieval

Operating Systems

TECHNICAL SKILLS

C / C++, JAVA

MySQL

JSP

HTML

Javascript

React Native

Hack

GraphQL

Relay

WORK EXPERIENCE

Facebook, Menlo Park

Software Engineer Intern

May 2016 - August 2016

- Implemented additional features in Ads Manager app.
- Completed both client side and server side work required for the features.

Centre for Development of Telematics, Delhi

Research Engineer, Call Processing Group

Aug 2013 - July 2015

- Designed and implemented data storage architecture for storing data at the rate of over 1600 users per second.
- Optimized code to increase the number of voice calls handled by over 50 calls per second.
- Implemented Call Restoration features to restore the sessions in case of network failure.
- Implemented numerous in-call features at different nodes in IMS network.

Sunhill System Pvt. Ltd., New Delhi

Programmer Intern (Online Hotel Room Booking)

June 2012 - July 2012

- Improved database schema to increase performance and allow more data storage.
- Implemented new functionality for seamless handling of simultaneous booking requests.
- Enhanced the user interface for customer ease and handled payment gateway functions.

PROJECTS

Smart Seep, A card game application based on logical deductions and memorization.

- Designed and implemented algorithm, involving probabilities and enumerations, for developing expert system (Artificial Intelligence) for computer player.
- Developed the GUI of the application with card drag and drop functionality.
- Tested and improved the algorithm for making the algorithm robust.

Delta File Creation, Application to create patches of updated versions of any file.

- Studied and coded RSYNC algorithm to determine factors affecting the block size used.
- Designed a new file format for storing the patch so that size of patch is near minimum.
- Experimented with the block size to decide criterion for selecting block size.

BooksHub, A web application providing platform for publishing and reducing piracy of books

- Developed a downloader app to download books and prevent piracy.
- Developed web pages and added features to allow users to buy/read a chapter or full book.
- Placed validation checks on user entry data forms in JavaScript.

ACHIEVEMENTS & ACTIVITIES

- Participated in 'Show Your IT Talent' Contest hosted by Works Applications.
- Won HUMBUG, an obfuscated coding based event, in national level technical symposium.
- Secured 2nd position in BLACKBOX, a logic predicting contest.
- Served as a member of official society of computers and IT at NIT Kurukshetra for a year.

LANGUAGES KNOWN

Fluent in Hindi and English; Conversational Proficiency in Hindi and English.