

# SANCHIT ALEKH

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## EDUCATION

**MSc. in Software Systems Engineering (Pursuing)** ◦ RWTH Aachen University ◦ GPA: 1,4 ◦ 2016-2018

· Coursework:

**Theoretical Computer Science:** Satisfiability Checking · Compiler Design

**Data and Information Management:** Implementation of Databases · Big Data in Medical Informatics · Privacy Enhancing Technologies in Data Science · Soft Computing · Artificial Intelligence · Information Retrieval

**Applied Computer Science:** Computer Vision · Virtual Reality · Graphics and Visual Computing

**B.Tech (Honours) in Information Technology** Indian Institute of Information Technology ◦ GPA 9.09/10 ◦ 2012-2016

**Abitur/Higher Secondary School Exam** Delhi Public School, Patna ◦ 93.6% ◦ 2010-2012

## WORK AND PROJECT EXPERIENCE

**Informatik 5, RWTH Aachen University** ◦ Student Assistant

SINCE JAN 2016

· Working under PD Dr. Christoph Quix as a part of the mi-Mappa project ([dbis.rwth-aachen.de/cms/projects/mi-mappa](http://dbis.rwth-aachen.de/cms/projects/mi-mappa)), which aims to identify suitable actors for complex innovation in medical science

TECHNOLOGIES AND CONCEPTS: Medical Text Mining and Analysis, Information Extraction, Database Optimisation

**Knowledge Mining and Assessment Group, TU Darmstadt** ◦ Research Intern

SINCE MAY 2015

· Under Prof. Ulf Brefeld, worked on computing a confidence measure on reliability of data on crowd-sourced and commercial encyclopediae

TECHNOLOGIES AND CONCEPTS: Python, MySQL, Information Extraction, Text Mining, Conditional Random Fields, Wikipedia API

**Indian Institute of Information Technology Allahabad** ◦ Semester Project

JAN 2015-APR 2015

· Implemented and tested various Incremental Learning architectures, namely ARTMAP (Based on Adaptive Resonance Theory) and Learn++ (an extension of the AdaBoost Ensemble).

TECHNOLOGIES AND CONCEPTS: Java, Python, Neuroph Studio, Git, Neural Networks, ARTMAP, Boosting, Learn++, gnuplot

**Centre for Development of Advanced Computing Pune** ◦ Project Trainee

DEC 2014-JAN 2015

· Built an anonymizer service for Medical Imaging standards: DICOM and HL7 using C-DAC's Medical Standards Toolkit.

TECHNOLOGIES AND CONCEPTS: Java, DICOM, HL7, DIMSE Services, HIPAA

**University of Wisconsin Milwaukee** ◦ Research Intern

MAY 2014-JUL 2014

· Analyzed and optimized present algorithms and toolkits for anonymizing personal information in Medical Health Data. Focused on Mu-Argus for structured and MIST for unstructured data.

TECHNOLOGIES AND CONCEPTS: Java, HIPAA, Text Mining

## SKILLS

**Programming Languages:**

C, Java, Python

**Operating Systems:**

OSX, Linux, Windows

**Web Development:**

HTML, CSS, XML, PHP, JavaScript

**ML-Algorithms:**

PCA, LDA, Neural Networks, SVM, Edge-Detection, GA, HMM, CRF, ConvNets

**Health Standards:**

DICOM, HL7, SNOMED-CT, LOINC, ICD, HL7-CDA

**Databases:**

MySQL, PostgreSQL, Oracle, MSSQL, SQLite, MongoDB

## PUBLICATIONS

**Combining Keystroke Dynamics and Face Recognition for User Verification** 8th IEEE International Conference on Computational Science and Engineering ◦ October 2015 ◦ Porto, Portugal

**Ontology-based classification and Analysis of Smart-City Events** International Conference on Computational Techniques in Information and Communication ◦ March 2016 ◦ New Delhi, India

## REFERENCES

**PD Dr. Christoph Quix** RWTH Aachen ◦ Aachen ,Germany ◦ [quix@dbis.rwth-aachen.de](mailto:quix@dbis.rwth-aachen.de)

**Prof. Dr. GC Nandi** Director, Indian Institute of Information Technology ◦ Allahabad, India ◦ [gcnandi@iitaa.ac.in](mailto:gcnandi@iitaa.ac.in)