



# Jainam Shah

Roll Number : 130101025  
B.Tech - Computer Science and Engineering  
Indian Institute of Technology Guwahati

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## Work Authorization

I **do not** require a VISA sponsorship. I am permanently authorized to work in the US.

## Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	9.14 (Current)	2013 - 2017
Senior secondary	City International School, Pune (CBSE)	94.2%	2013
Secondary	Delhi Public School, Pune (CBSE)	10/10	2011

## Experience

- **Software Development Engineering Intern, Microsoft** May - July ' 16
  - Developed tools for easy and efficient mining of OFFICE API Logs and their Performance Analysis.
  - Separate scripts were written for data extraction and analytics display. The running of scripts was automated for better usability.
- **Application Development Intern, Bohiyaanam Ltd.** May - July' 15
  - Worked on an android application which aims at automating the process of providing prescriptions by the doctors.
  - An Auto - Complete search feature was provided as an aid in case the doctor cannot recollect the name of some medicine, tablet etc.

## Projects

- **Miniature SQL** Ongoing  
*Interest Driven Project* git.io/v1qYM
  - Implementing a miniature model of MySQL in C++.
  - It includes parsing of the input query, storing database in files and implementing various queries.
- **Online Course Feedback Management System** March - April' 15  
*Dr. Santosh Biswas, Associate Professor, Dept. of CSE, IIT Guwahati* git.io/vXbnN
  - Developed an online portal for students to provide feedback in their respective courses.
  - It includes a profile page for students , teachers and dynamic addition of courses along with a feature of broadcasting important messages to students.
- **Compiler Design** January - March' 16  
*Dr. Arijit Sur, Associate Professor, Dept. of CSE, IIT Guwahati* git.io/vXbnx
  - Designed a compiler for a subset of C Language in a group of 3 students.
  - It included lexical analysis of the input code, creating a parse tree for the same, its semantic analysis and finally MIPS code generation.
- **Simulation of Concurrent Cache Access** September - October' 16  
*Interest Driven Project* git.io/vXbC7
  - Simulated a cache access system keeping in mind the concurrency control protocols .
  - It included using a mutex for multi threaded access and avoiding the reader's-writer's problem.
  - The system was implemented using C.

- **Miniature Wiki Search Engine** August - November ' 16  
*Dr. Ranbir Singh, Assistant Professor, Dept, of CSE, IIT Guwahati* [git.io/vXbcl](https://git.io/vXbcl)
  - Implemented a miniature search engine for a subset Wikipedia articles in a group of 4 students.
  - It included topic modelling using LDA, word2vec for word representation, query expansion and Solr for indexing.
- **Sequential Pattern Mining** September - November' 16  
*Interest Driven Project* [git.io/v1Bzj](https://git.io/v1Bzj)
  - Implemented Apriori based Sequential Pattern Mining Algorithm in Scala.
  - Constraints such as Min Gap, Max Gap and Max Span were also implemented.
- **Image Captioning** September ' 16 - Present  
*Bachelor's Thesis Project*
  - Given an image as input, produce a set of captions describing it .
  - Study the research done in the field and suggest improvements.

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## Technical skills

- **Programming languages** : C, C++, Python (basic)
- **Web technologies** : HTML, CSS, Javascript, JQuery, PHP, Django (basic)
- **Database management** : MySQL
- **Operating system** : Windows, Linux (basic)

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## Key courses taken

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|----------------------------------|--|
| • Data Structures and Algorithms | • Operating Systems                      |
| • Databases (Theory and Lab)     | • Software Engineering (Theory and Lab)  |
| • Compilers (Theory and Lab)     | • Information Retrieval                  |
| • Data Mining                    | • Computer Vision using Machine Learning |
| • Computer Graphics              |  |

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## Achievements

- Secured All India Rank **69** in **ACM ICPC Chennai Regionals** online round and qualified for the regional onsite.
- **National Top 1%** - National Standard Examination in Chemistry 2013, amongst 120,000 students
- Secured All India Rank **858** of all candidates (1.2 million+) in **JEE Advanced** 2013
- Secured All India Rank **54** in National Science Talent Search Examination (**NSTSE**) (2012)

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## Extracurriculars

- City Representative- Technothon: The event witnessed more than 1.2k participants.
  - State Level Chess Player.
  - Core Organizing team-Techniche (Annual Technical Fest IIT Guwahati).
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