

# Dibya Jyoti Roy

## EXPERIENCE

OCTOBER 2017 – CURRENT

Software Engineer, Microsoft Vancouver

### Azure Private DNS and Internal DNS

Software engineer working on Azure Private Dns and Internal Dns. By using Private Dns zones, users can use their own custom domain names rather than the Azure-provided names available today. Using custom domain names helps you to tailor your virtual network architecture to best suit your organization's needs.

## PROJECTS

JULY 2016 – APRIL 2017

B.Tech Project, Kharagpur

### User Identification based on Temporal Activity Recognition

Poster paper in IEEE MDM 2017: "UDAT: User Discrimination using Activity-Time Information". Developed an Android App which gathers all the sensor raw data along with the current activity of the person. Developed a system which would be able to identify different users uniquely based on their activity patterns throughout the day.

JANUARY 2016 – APRIL 2016

Academic Project, Kharagpur

### Reddit AMA Summarizer

Implemented 3 methods: Lexrank, LDA modelling, and clustering along with Lexrank to summarize the answers given by the host of an AMA in Reddit.

MARCH 2016 – APRIL 2016

Academic Project, Kharagpur

### Realtime Visualization of Twitter Hashtags

Realtime handling of tweet streams using Apache Spark and an API for querying on this data. Interactive visualization of co-occurring hashtags using vis.js.

FEBRUARY 2016 – MARCH 2016

Academic Project, Kharagpur

### Course Management Website, MEAN Stack

A dynamic web app where instructors can offer courses for students with provision for assessments and performance tracking. Used the MEAN (MongoDB, Express.js, Angular.js, Node.js) stack to develop the web app. Implemented the back-end of the website and developed the APIs.

JANUARY 2016

Inter-IIT Tech Competition

### Proximity Based SOS Android App

Allows user to send a notification for help to everyone within a predefined radius. Developed the API using Node.js. Developed widgets for the Android app. Implemented Pubnub for real-time chat integration. Implemented services for continuous tracking of location of users.

JULY 2015 – NOVEMBER 2015

Academic Term Project, Kharagpur

### Review Spammer Detection System

Implemented a Review Graph based Review Spammer Detection System on Fiverr. Used LIWC for text analysis. Used Selenium WebDriver & BeautifulSoup to crawl & parse the HTML, MongoDB as Database, Plotly for plotting.

## ACHIEVEMENTS

2017 Captain of silver winning team of Azad Hall of Residence in Opensoft (inter-hall) among 11 halls of residences

2016 1<sup>st</sup> position in Inter-IIT (intercollegiate) Tech Software Development among 19 IITs, India.

2013 Ranked 351 among 150,000 students, JEE Advanced Examination, India.

2013 Ranked 1 among over 150,000 students, Odisha Joint Entrance Examination and Jharkhand Joint Entrance Examination, India.

2013 Ranked 42 among over 100,000 students, West Bengal Joint Entrance Examination, India.

2013 Selected for INSPIRE Scholarship.

2009 Recipient of NTSE Scholarship by NCERT.

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## EDUCATION

2013 – 2017 **Computer Science And Engineering**  
BACHELOR OF TECHNOLOGY (HONOURS)  
IIT Kharagpur, India  
GPA. 8.83/10

2011 – 2013 **Class XII Board (ISC)**  
Tagore Academy, Jamshedpur, India  
Percentage. 96.25%

1998 – 2011 **Class X Board (ICSE)**  
Tagore Academy, Jamshedpur, India  
Percentage. 95.2%

## COURSES

- Deep Learning
- Ubiquitous Computing
- Machine Learning
- Distributed Systems
- Data Structures
- Algorithms
- Social Computing
- Operating Systems
- Software Engineering
- Compilers
- Information Retrieval
- Computer Networks
- Parallel & Distributed Algorithms
- Principles of Programming Languages
- Formal Languages & Automata Theory
- Computer Organization & Architecture

## SOFTWARE SKILLS

PROFICIENT	Java, C++, C#, Android, HTML5, Node.js
INTERMEDIATE	C, JavaScript, VB, CSS, SQL, MongoDB, Xamarin.Forms, ASP.NET, Windows, Ubuntu, MEAN, Git, Unity

## INTERNSHIPS

MAY 2016 – JULY 2016

Internship, Microsoft IT, Hyderabad

### Mobile Device Apps Development & Analytics for Business Insights

Non Disclosure Agreement.  
Offered a full time position at Microsoft, Vancouver.

MAY 2015 – JUNE 2015

Internship, Tata Steel, Jamshedpur

### ERP, Sinter Distribution, ASP.NET

Designed and Implemented the whole structure and front-end of the website. User-Authentication and User-Authorization of the various modules of the website. Website Configuration. Algorithm for daily sinter distribution. Integration of the different modules of the website from other team members. Error Management system. Email Notification system. Unit Testing. Use-Case Diagram.

MARCH 2014 – FEBRUARY 2015

Internship, Zephcon Technologies, Kharagpur

### Android App Developer

Developed the front-end of two android apps. Was the lead developer for the project.