**Naresh R**

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**EDUCATION**

Indian Institute of Technology, Kharagpur  
Spring 2018

B. Tech + M. Tech in Computer Science and Engineering

**LANGUAGES**

C++, Python, Java, JavaScript, Ruby, HTML, CSS

**TECHNICAL SKILLS**

OpenCV, Node.JS, Angular, Express, MySQL, MongoDB, Robotic Operating System (ROS), Git, Linux, Android, Sass

**POSITIONS OF RESPONSIBILITY**

Captain Team LBS  
OpenSoft 2017

Executive Editor  
Technology Literary Society

General Secretary  
CodeClub IITKGP

Core Team Member  
Google Students Club**PROFESSIONAL EXPERIENCE**

Backend Intern @ ezDI, Ahmedabad  
May 2016 – June 2016

* Helped improve response time of full-table queries by an order of magnitude by diverting them to AWS Redshift and automating migration & replication of data from RDS to Redshift using a custom server.
* Implemented POCs to integrate a Business Intelligence solution into the platform, and set up base models to take advantage of reusable SQL views.

Software Developer @ Autonomous Underwater Vehicle Research Group  
February 2015 – April 2016

* Was one of the tech leads in Image Processing for national level championship winning bot ‘Kraken’ at Autonomous Underwater Vehicle Research Group, IITKGP.
* Improved bot’s ability to adapt to changing lighting conditions underwater with Neural Network based adaptive image segmentation.
* Implemented several other algorithms in OpenCV and ROS for the bot to complete various tasks autonomously.

**PROJECTS**

Automated entity comparison for Wikipedia text corpora February 2017

* Implemented a comparative text mining task using a graph-based framework to model and measure semantic commonality to establish meaningful comparisons.
* Wikipedia’s distinct features were leveraged upon to further improve results in the context of Wikipedia articles.

StoI (SMS to Internet) December 2016

* Built an android app that provides basic internet access including Google Maps navigation, Duckduckgo search, Zomato reviews, etc. without a data connection.
* Communication with the RESTful server was done using Twilio’s SMS APIs.

Lyrics generator using neural networks November 2016

* Created a lyrics generator that generates a new song in a given artist’s style.
* A database of song lyrics (from a set of artists) was used to train a Long Short Term Memory (LSTM) neural network, implemented with Tensorflow, that learns the artists’ styles of writing, including words, rhymes, chorus, etc.

Lowpolify (Low-poly art generator) October 2016

* Made a web app that generates a low-poly version of any given image using Delaunay Triangulation, coupled with noise reduction, edge detection, randomization and parallel processing for fast and clean results.

Selene (A community based music-recommendation engine) April 2016

* Built an Android app that serves as a social music-recommendation engine based on YouTube. It extracts music preferences from Facebook friends less than 5 nodes away in the social graph and recommends tracks based on the user’s preferences.

Retrieving salient sentences from Reddit AMAs April 2016

* Built a summariser using Lexrank and Alchemy API that summarises comments from /r/iAMA, clustered by flair and by topic, into bullet points for easy consumption.