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R Naresh

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Education

2013-2018 (Expected) | B.Tech and M.Tech (Dual Degree) in Computer Science and Engineering
Indian Institute of Technology, Kharagpur
Coursework: Programming and Data Structures, Discrete Structures, Algorithms-II, Switching Circuits, Operating Systems, Computer Networks, Machine Learning, Image Processing, Algorithms-I, Software Engineering, Compilers, Database Management Systems, Information Retrieval, Advanced Graph Theory

Technical Skills

Programming	*Proficient in* C, C++ and *Familiar with Javascript, Python, Java,* C#
Libraries/Frameworks	Node.js, AngularJS, Express, jQuery, D3, Socket.io, Bootstrap, ROS
Markup/Templating	HTML, CSS, Sass, LaTeX
Databases	MySQL, MongoDB, PostgreSQL
Systems/Platforms	Git, AWS (RDS, S3, Redshift, DMS), Android

Experience

Jun 2016 – May 2016 | **Software Development Intern** — **ezDI, Ahmedabad**
- Worked on integrating a Business Intelligence tool that aggregates data from all of ezDI's products for easy analytics.
- Was solely responsible for automating migration of data to a data warehouse (Amazon Redshift) using a custom server built on nodejs using AWS APIs to replicate data and changes in RDS to Redshift through S3 at regular intervals.
- Implemented several proof-of-concepts to embed a BI solution into the platform and set up multiple base models to take full advantage of reusable SQL views.

Apr 2016 – Feb 2015 | **Kraken 3.0** (Autonomous Mobile Robot) — **Autonomous Underwater Vehicle Research Group**
- Worked on an autonomous underwater vehicle to represent India and IIT Kharagpur at competitions held in India and abroad.
- Worked in the Image Processing Team to implement algorithms in OpenCV for the bot to successfully complete multiple task including Buoy detection and path following. Was part of the group implementing a Neural Network based adaptive image segmentation to adopt to changing lighting conditions.

Academic Projects

Apr 2016 | **Data extraction from biomedical literature for automating systematic reviews**
- Worked on feature detection of a particular class of text (specifically, inclusion and exclusion criteria for patients) from a huge collection of biomedical literature using NLP Techniques with high precision and recall.

Apr 2016 | **Selene** (A community based music-recommendation engine.)
- Built an Android app that serves as a social music-recommendation engine based on YouTube that extracts usage data from *Selene* users who fall under a branch length of 5 nodes in a user's Facebook friends graph, and recommends most popular tracks among them.

Apr 2016 | **Retrieving salient sentences from Reddit AMAs**
- Built a web-based summariser that provides summaries from /r/iAMA with abilities to choose any AMA from a list or through instant search (implemented with Angular autocomplete.)

Mar 2016 | **Studious - Course Management System**
- Built a complete course management system that supported authentication & authorization, User Access Control for 4 different types of users, real-time messaging with notifications (using socket.io), calendar support and all major features one can expect from a CMS including faculty management, course progression, self-evaluated tests, etc.

Apr 2015 | **Medical Lab Automation System**
- Developed a software using JAVA Swing for a Medical Lab Automation System which handles and automates all requests of the management and patients.

Hackathons & Workshops

Apr 2016 | **Data Extractor from 2D plots** — **OpenSoft 2016**
- Built a graph extractor that detects multi-variable graphs in any given PDF and tabulates them autonomously taking into consideration features like axis values, scale, legend

Mar 2015 | **Campus Connexions** — **Microsoft Code.Fun.Do 2015**
- Developed an intra-college social networking app with real time feed from registered users that would serve as a platform for official and unofficial announcements within the college.

Dec 2014 | **Object Follower Robot** — **Technology Robotix Society, IIT Kharagpur**
- Implemented image detection algorithms using openCV for a WSAD robot which can follow a specified path using the directives sent by overhead camera whose recorded images were processed and movement were instructions generated.

Positions of Responsibility

Current | **Executive Editor**, Technology Literary Society, IIT Kharagpur
Apr 2016 | **General Secretary**, CodeClub, IIT Kharagpur
Apr 2015 | **Team Member**, Google Students Club, IIT Kharagpur