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Naresh R

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Education

2013-2018 (Expected) | B.Tech and M.Tech (Dual Degree) in **Computer Science and Engineering** — CGPA: 7.59/10.0
Indian Institute of Technology, Kharagpur

Technical Skills

Programming	*Proficient in* C, C++, Javascript, *competent in* Java, Python and *familiar with* C#
Libraries / Frameworks	Node.js, AngularJS, ReactJS, Express, Maven, JUnit, TestNG, Scikit-learn, OpenCV, ROS
Databases	MySQL, MongoDB, PostgreSQL
Systems / Platforms	Git, AWS, Docker, Linux, Android

Work Experience

Jul 17 – May 17 | **Software Engineering Intern** — **Intuit, India**
- Wrote a GraphQL-esque API service for opting out of QBO during trial period, and added unit as well as automation tests.
- Used Machine Learning to predict potential paid customers from QBO's trial data.
- Reduced erraneous reports by 20% from other teams to QBO's Billing team with a revamped and powerful internal tool.

Jun 16 – May 16 | **Software Engineering Intern** — **ezDI, India**
- Automated migration and replication of real-time data from RDS to Redshift at regular intervals.
- Implemented proof-of-concepts to embed a BI solution into the platform and set up base models to take advantage of reusable SQL views.

Apr 16 – Feb 15 | **Software Team Member** - Kraken 3.0 — **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 and ROS for the bot to successfully complete tasks like Buoy detection and path following. Implemented Neural Network based adaptive image segmentation to adapt to changing lighting conditions.

Projects

- **Automated entity comparison for Wikipedia text corpora**
  Implemented a novel comparative text mining task using a graph-based framework to model and measure semantic commonality and currently working on improving the results for specific domains using Wikipedia, leveraging its distinct features.
- **Lyrics generator using neural networks**
  Worked on a lyrics generator that generates a new song in an artist's style. Created a database of song lyrics and used tensorflow to create a Long Short Term Memory (LSTM) neural network that learns artists' styles of writing, including words, rhymes, chorus, etc.
- **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.
- **Selene**
  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 the most popular tracks among them.
- **Retrieving salient sentences from Reddit AMAs**
  Built a summariser that provides summaries from /r/iAMA, clustered by broad and finer topics, using Lexrank and Alchemy API.
- **Studious**
  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.
- **Medical Lab Automation System**
  Developed software using JAVA Swing for a Medical Lab Automation System which handles and automates all requests of the management and patients.

Hackathons & Competitions

Mar 17 | **MetaKGP Dashboard** — **Inter-IIT Tech Meet '17**
- Made an android application that provided basic internet access including Google Maps navigation, Duckduckgo quick search, Zomato reviews, etc. without a data connection. Communcation with the server was done using Twilio's SMS APIs.

Dec 16 | **StoI** (SMS to Internet) — **Pragyan Hackathon '17**
- Made an android application that provided basic internet access including Google Maps navigation, Duckduckgo quick search, Zomato reviews, etc. without a data connection. Communcation with the server was done using Twilio's SMS APIs.

Apr 16 | **Data Extractor for 2D plots** — **OpenSoft '16**
- Built a graph extractor that detects multi-variable graphs in any given PDF and tabulates them autonomously taking into consideration features like axis values, scales and legends.