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Naresh R

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A-211, LBS Hall of Residence, IIT Kharagpur, WB, India - 721302

Education

2013-2018

B.Tech + M.Tech (Dual degree) in Computer Science and Engineering

(Expected)

Indian Institute of Technology, Kharagpur

Technical Skills

Programming Languages

Proficient: C++, Python, Java, Javascript

Competent: C, Golang

Libraries / Frameworks

Node.js, ReactJS, AngularJS, Express, Maven, JUnit, TestNG, Scikit-learn, OpenCV, ROS

Databases | MySQL, MongoDB

Systems / Platforms | Git, Docker, Linux, Android

Work Experience

Jul 17

Software Engineer Intern

Intuit, India

May 17

- Wrote an end-to-end GraphQL API service in Java for opting out of QuickBooks Online's core subscription.
- Deployed a Machine Learning model to help Intuit predict potential paid customers for QBO using trial data.
- Reduced erroneous reports by over 30% from other teams to QBO's Billing team with a revamped internal tool.

Jun 16 May 16

Software Engineer Intern

ezDI. India

- Automated migration & replication of real-time data from Amazon RDS to Redshift, optimized for full-table queries.

- Implemented proof-of-concepts to embed a Business Intelligence (BI) solution into the platform.

Apr 16 Feb 15

Software Team Member - Kraken 3.0

Autonomous Underwater Vehicle Research Group

- Wrote image processing algorithms in OpenCV and ROS for tasks like buoy detection and path following.
- Worked on Neural Network based adaptive image segmentation for the bot to adapt to dynamic lighting conditions.
- Wrote the first version of a GUI for actively monitoring and controlling the bot's image parameters.

Projects

• Learning to extract comparison points of entity pairs from Wikipedia articles

Worked on a novel comparative text mining task using relational tuples to model and measure semantic commonality for two given documents and tabulating them. This work was published as a poster at JCDL 2018.

Compiler for Tiny C (A tiny subset of the C language)

Built a compiler for Tiny C, a self-defined subset of the C language, using Compiler principles and techniques. The compiler itself was written in C++ with Flex and Bison for Lexical Analysis and Semantic parsing.

• Mini Linux Shell

Implemented some features of the Linux Shell including redirection, piping and terminal mirroring using the Clanguage.

Lyrics generator using neural networks

Wrote a lyrics generator using TensorFlow that generates a new song in an artist's style. A Long Short Term Memory (LSTM) Neural Network learns the artists' styles of writing including words, rhymes, chorus patterns, etc. for the task.

Selene

Built a social music-recommendation Android app that analyzes songs liked by a users' friends on YouTube and recommends them to the user as a trending feed with added song metadata using the MusixMatch API.

• Retrieving salient sentences from Reddit AMAs

Built a summariser for /r/IAmA to create reader-friendly digests that are clustered by topic and presented to the user.

Graph Extractor

Built a graph extractor that uses image processing techniques to detect multivariate graphs in any given PDF and tabulates them autonomously, taking into consideration features like axis values, scales and legends.

MetaKGP dashboard

Currently working with student developers on a NUS-Mods style dashboard for IIT KGP with several utilities for the community like smart timetable, news aggregator, question paper portal and professor finder to name a few.

Activities & Leadership

- Organisation Maintainer at MetaKGP to moderate, mentor and work with the student community on several open-source projects and a self-hosted Wiki for IIT Kharagpur.
- Won 3rd place and 5th place at tech competitions Inter-IIT and OpenSoft (LBS) respectively as team captain of 10 students.
- Organised hackathons & coding challenges as a part of BitWise and managed a team of 15 students to raise sponsorship.