Arjun R. Rao

Software Developer · Speaker · Researcher

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Education

M.S. Ramaiah Institute of Technology (RIT) *Bangalore, India*

B.E. in Information Science and Engineering *Aug. 2014 - June 2018*

- CGPA: 9.41/10
- Best Outgoing Student (Batch of 2014-2018), Dept. of Information Science & Engineering

Experience

Stride.ai Inc. *Bangalore, India*

NLP Engineer *July 2018 - Present*

- Working on text classification and hierarchical clustering problems, optimized for low resource datasets.
- Lead frontend developer, responsible for UI design and implementation on several projects.
- Developed interactive visualizations in D3.js supporting real-time visualization updates, user feedback etc.
- Lead developer for a custom PDF Viewer built using pdf.js that allows for user annotation functions and additional capabilities. The viewer is being used in 10+ Projects.
- Technologies Used: Python, Keras, Tensorflow, D3.js, Angular, PDF.js, Internal tools

Research and Development Intern *Jan. 2018 - Apr. 2018, Oct. 2016 - Dec. 2016*

- Optimized Named Entity Recognition models in a production project to improve accuracy by combining standard NER datasets with context specific data.
- Implemented end to end web based projects for process automation using Django, Angular and internal libraries.
- Built scrapers for automatically extracting information from multiple websites involving simulation of complex UI interactions.
- Technologies Used: Django, Selenium, Angular, CoreNLP, Internal tools

Cloud Developer Relations, Google Inc. *San Francisco, US*

Developer Programs Engineer Intern *June 2017 - Sept. 2017*

- Built tools to help track code repositories and generate customized notifications, for faster triage of issues.
- Part of the project was released as open source software, and can be found at github.com/GoogleCloudPlatform/issuetracker
- Technologies Used: Google Cloud Datastore, Google BigQuery, Google App Engine, GoLang, Angular

M.S. Ramaiah Institute of Technology *Bangalore, India*

Teaching Assistant, Applied CS with Android Course (4 Credits) *Jan. 2017 - May 2017*

- Teaching Assistant for Applied CS with Android Course designed in collaboration with Google.
- Handled 25 two-hour tutorial sessions for a class of 52 students.
- Developed codelabs, internal sites, auto grading systems for assignments.
- Based on my work, RIT was selected as one of the 5 universities worldwide, to be featured in a case study for University Adoption of the program. [Link]
- Technologies Used: Android, Java, GoLang, Javascript

Facilitator, Google Applied CS with Android Program *Feb. 2016 - Dec. 2016*

- Conducted 5 cohorts of 16 hour Applied CS workshops for over 150 students as a campus facilitator for RIT.
- Recognized as a top facilitator for the academic year of 2016-2017 in the program.
- Technologies Used: Android, Java

CSIR- Central Electronics Engineering Research Institute *Pilani, Rajasthan, India*

Research Fellow, Indian Academy of Sciences Summer Research Fellowship (IAS-SRFP 2016) *June 2016 - Aug. 2016*

- Research project titled "Catadioptric Scene Analysis" at the Computer Vision Lab, CSIR-CEERI under Prof. Santanu Chaudhury.
- Worked on implementation of unwrapping algorithms and evaluation of computer vision algorithms for pedestrian detection on catadioptric images. [Link to Report]
- Technologies Used: Matlab - Computer Vision Toolbox, OpenCV

Publications

Honors & Awards

National

Winning Team, Hackathon Challenge, IBM Collaborative Academia Research Exchange (ICARE 2016)
Oct. 2016

Fellow, Indian Academy of Sciences Summer Research Fellowship Program 2016
June 2016

Finalist, Build the Shield 2016 - Cyber security contest by Microsoft
Mar. 2015

Regional

Best Performer, PAYSE Ethical Hacking Challenge at RIT Bangalore, by Nucleus Software
Mar. 2017

Winner, Hackathon, Empyreal 2017 at RIT Bangalore
Feb. 2017

Talks

Learning AI Development and UX
Bangalore india

SPEAKER FOR WOMEN TECH MAKERS BANGALORE'S SESSION ON LEARNING AI DEVELOPMENT
Dec. 2018

- Conducted a day long hands-on workshop on AI development, covering topics of feature engineering, model building and serving.
- Used Google's Colab environment to design hands on exercises using Keras and Scikit-Learn.
- [Link to Slides]

Apps Script Study Jam
Bangalore, India

FACILITATOR FOR GDG BANGALORE'S WORKSHOP ON GOOGLE APPS SCRIPT
Feb. 2018

- Conducted a day long hands-on workshop on Google Apps Script for Google Developer Groups Bangalore.
- [Link to Slides]

The Power of Google Apps Script
Bangalore, India

SPEAKER FOR GDG BANGALORE'S DEVFEST
Oct. 2017

- Introduced Google Apps Script with use cases, workflows and demos at Google Developer Groups Bangalore's annual developer conference.
- [Link to Slides]

Extracurricular Activities

Two Day Hands on Workshop on UML Modelling and Design Patterns
Bangalore, India

TEACHING ASSISTANT
Mar. 2017

- Conducted hands-on sessions on MVC using Flask at Global Academy of Technology, Bangalore.
- Wrote problem sets, walkthroughs, slides & lecture notes for the hands on sessions.
- Setup a cloud based IDE for students to use on c9.io to reduce setup time.

Google India's Code to Learn Contest 2016
Bangalore, India

JUDGE
May 2016

- Evaluated projects submitted by students of classes 5 to 10, created using Scratch and MIT App Inventor.

IEEE ANTS Conference 2016
Bangalore, India

CONFERENCE VOLUNTEER AND APP DEVELOPER
Nov. 2016

- Developed an Android & Web App to handle conference logistics using QR Codes on attendee badges.
- Helped organize the conference as a student volunteer at the Indian Institute of Science, Bangalore.

IEEE WIE Symposium 2016, Ignite Tech Fest 2016, TEDx MSRIT 2015
Bangalore, India

EVENT VOLUNTEER
2015-2016

- Organized, and conducted a Capture the Flag competition as part of Ignite Tech Fest 2016 at RIT.
- Helped organize events as a volunteer for TEDx MSRIT 2015 & IEEE WIE Symposium 2016 at RIT.