### AMAL KRISHNA R

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EDUCATION

M.S. in Computer Science:

2017 - 2019 (expected)

Concentration: Data Analytics

CGPA: 3.75/4 Boston University

B.Tech in Avionics Engineering: 2012 - 2016

Indian Institute of Space Science and Technology (IIST)  $\,$ 

#### Relevant Experience

## Quality Assurance Intern, Boston University Sept, 2017 - present

- QA Intern on QA process for HR & Payroll functions & Programming team at the BU IT & Services (BUworks).
- SAP Automation & HPE LoadRunner for performance testing.
- Writes unit and integration test cases for SAPUI5 web-app testing.

## Software Engineering Intern, Ather Energy Mar, 2017 - July, 2017

- Worked on JIRA API for Python to implement automation functionalities for the program team.
- Worked on SailsJS framework to build a data visualization portal from the JIRA issue tracking data.
- Worked for the data intelligence team with REST API, ElasticSearch, Kibana & Grafana.

## Data Analytics Research Intern, Tech Mahindra Aug, 2016 - Dec, 2016

- Worked on developing and evaluating data analytics projects with python for the e-learning website UpX Academy.
- Published white papers & e-books on data analytics.

# Summer Intern, Indian Institute of Space Science and Technology May, 2015 - July, 2015 Mentored by B.S. Manoj, Professor & Head, Dept. of Avion-

Mentored by B.S. Manoj, Professor & Head, Dept. of Avior ics. IIST

#### Project: Software Defined Delay Tolerant Network

- Analyzed the challenges of SDN in a high delay environment.
- A python-C based SDDTN module was deployed onto every switch using OpenFlow protocol which gets activated in the absence of central controller
- The module act as a light-weight controller which generates the flow for the switch & compute the plausible locations to store the packets in an isolated network.

#### TECHNICAL SKILLS

**Strongest Areas** - Data Analytics and Visualization, Software Engineering (Automation), Cognitive Networks

Languages - Python, R, Javascript, Java, C++

Tools/Frameworks - NodeJS, SailsJS, Shiny, Django, SAP, MochaJS, MAVEN, Weka, Grafana, ElasticSearch, Kibana, Logstash, REST API, JIRA, Spark, Hadoop, Git, Semantic-UI, Bootstrap, POSTMAN, LATEX, MySQL, OpenGL, RYU,

Open vSwitch, OLSR daemon

#### Relevant Courses

**BU** - Computer Language Theory, Foundation of Analytics, Web Analytics & Mining, Artificial Intelligence, Data Analysis & Visualization, Data Mining, Software Engineering, Cloud Computing.

**IIST** - Computer Networks, Wireless Mesh Networks, Data Structures & Algorithms, Virtual Reality, Computer Organization & Operating System, Information Theory & Coding.

#### SELECTED ACADEMIC PROJECTS

Codes available on github : https://github.com/amalrkrishna

- MBTA Data Visualization & real-time app: Adavanced data visualization methods with R & plotly was used on one week of MBTA data. Box plots, density plots, heat maps etc were ploted for travel, headway & dwell times. Real-time MBTA app was developed with R, shiny & leaflet which shows the realtime positions of the trains in all the subway lines with the intensity of train clustering.
- Job skill statistics in Django framework: Python, Django MVT framework & plotly was used to scrape large amount of Indeed data and make a data-driven website. I was the team co-ordinator for Integration and Quality Assurance. I also worked on the plotly data visualizations and the website UI using Bootstrap.
- Maze Runner 2.0: Navigation in a Virtual Environment using IMU MPU-6050. Developed a hardware implementation to navigate in a virtual environment developed in OpenGL using a low-cost Inertial Measurement Unit(IMU) MPU 6050.
- Software Defined MICRONet: A scaled down model of Software Defined MICRONet(Mobile Infrastructure for Costal Region Offshore Communications & Networks) environment was emulated. Software Defined MICRONet architecture provides intelligent communication among physical boat clusters in the sea which will solve the technology challenges faced by the fishermen community.

#### Initiatives

ACM & IEEE Student Member 2015 - present Computer Science Tutor — Chegg.com 2016 - 2017 Taught 150+ students & took 200+ lessons through the platform in CS & Python/C++/Java/JS Programming.

Creativity Leader 2015
Conscientia 2015 Annual Astronomical & Tashnical Fact

 $Conscientia\ 2015,$  Annual Astronomical & Technical Fest, IIST

Finance & Creativity Leader
Dhanak 2014, Annual Cultural Fest, IIST

2014