ESHWAR N KUMAR

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EDUCATION

Bangalore Institute of Technology
(Affiliated to Visvesvaraya Technological University)
B.E IN Electronics & Communication Engineering
GPA: 3.57/4.0 (2013 - 2017)

LINKS

LinkedIn:
https://www.linkedin.com/in/eshwar-n-kumar-4613a5122/
Github:
https://github.com/EshwarNK/
Publication:
http://www.ijareeie.com/upload/2016/may/60_Performance.pdf

SKILLS

LANGUAGES

• Java • Python • R • C/C++
• HTML/CSS • JavaScript • AngularJS

TOOLS & TECHNOLOGIES

- **DBMS:** MongoDB, MySQL, ELK Stack, Postgres
- **Frameworks:** Spring, Flask, Django
- **Cloud Technologies:** Docker, Kubernetes, AWS
- **Data Science:** Pandas, Keras, TensorFlow
- **Bigdata:** Kafka, RabbitMQ
- **DevOps:** CI/CD, Jenkins, Drone, SonarQube
- **Version Control Systems:** Git, Bitbucket
- **SDLC:** Agile/Scrum

CERTIFICATIONS:

- Oracle Certified Java Developer (OCJP)
- Cisco Certified Network Associate

AWARDS

- 3 Cisco "You Inspire" Awards
- State 20th rank (95.33% overall marks and 100/100 in Chemistry) - 2nd Pre-University Examination
- Recipient - MHRD National Level Scholarship
- Second Winner - Datathon (Hackathon)

EXTRACURRICULAR

- Speaker - Cisco - Vani Toastmasters Club
- Organizer - Give Away activity for the kids in Parikrma NGO
- Organizer - IoT & Line follower robot workshops at Cisco and BIT
- Core Committee - Manthan 2016
- Technical Committee - ECSA at BIT
- Hobbies - Bike Riding, Skateboarding, Drawing, Cricket, Reading Books & Magazines

PROFESSIONAL EXPERIENCE

CISCO SYSTEMS | SOFTWARE DEVELOPMENT ENGINEER II (CX-Customer Experience)

June 2019 – Present | Bangalore, India | Java, SpringBoot, REST, Kubernetes, MySQL

- **Swift Product Onboarding Transformation (SPOT):** Developed three Microservices to reduce the customer's effort during the requirement gathering phase of onboarding of Cisco products like routers, switches, etc. Thereby enabling users to see the real-time reflection of values like product template values, project-product details, etc.
- **Automated Elastic Search Index Deployment (AEID):** Created a docker image that pulls the latest code from bitbucket repository and deploys the indices for all the Microservices present as a part Customer Portal to Elastic Search. It runs as an init container in a Kubernetes cluster, saving more than 40% of the time taken by the DevOps team to make deployments during release.

CISCO SYSTEMS | SOFTWARE DEVELOPMENT ENGINEER I (Cisco Webex Meetings)

August 2017 – May 2019 | Bangalore, India | Python, Flask, Docker, Keras, ML, DevOps

- **CMR Analyzer:** Designed and Developed a highly scalable dockerized service called Cisco Meeting Room(CMR) Analyzer that helps test engineers across the globe to resolve pager calls with minimal human intervention, thereby reducing the average turnaround time of pager alerts by 50%.
- **Jira Bot:** Designed and Developed an NLP based ChatBot, which takes input (meeting details) from the user and collects the debug information, analyzes the data, and creates a Jira issue if required.
- **CMR Infrastructure Validator:** The tool built using python libraries such as paramiko, pexpect ensures that all the infrastructure present in the resource application is in perfect working condition. It notifies the team and blocks the faulty devices from being used by the tests to minimize the number of pager alerts which occur due to poor infrastructure.
- **Micro-Services Health Check Monitor:** Developed a tool that continuously monitors the health of 54 microservices and immediately posts back the status of the non-active ones to a Teams Space.

CISCO SYSTEMS | SOFTWARE ENGINEERING INTERN (Service Provider Routing)

January 2017 – June 2017 | Bangalore, India | Python, PyATS, NCS4k, FireX

Project Name: NCS4k Single/Multi Chassis Unit Test Automation

- NCS4k (Network Convergence System four thousand) is a router completely developed by Cisco. As a backend engineer, I wrote scripts in Python and performed Unit Testing to automate approximately 80% of the test cases. The team is using these scripts rigorously to verify the functionalities of the router and to find bugs in the software at a faster rate.

DEFENCE RESEARCH & DEVELOPMENT ORGANIZATION | RESEARCH INTERN

January 2016 – February 2016 | Bangalore, India | Radars, Lidars, Warfare

- Being a part of the Defence Avionics Research Establishment (DARE) team, I received an opportunity to gain knowledge on the working of Electronic Warfare Systems and the practical applications of RADARs and LIDARs in these systems.

ACADEMIC PROJECTS, PUBLICATIONS & HACKATHONS

Performance Study of LTE Scheduling algorithms

March 2016 – May 2016 | C++, ns3(Network Simulator 3rd version)

- Analyzed the performance of Long Term Evolution(LTE) scheduling algorithms such as Round Robin, Proportional Fair, Maximum Throughput, and Blind Equal Throughput in a multicellular network on the impact of handover. Based on the simulation performed using an open-source tool called ns3, I was able to conclude that the Round Robin Scheduling algorithm provides the least latency and the highest system throughput when compared to the others.
- Published the research work done during the project in the International Journal of Advanced Research in Electrical, Electronics, and Instrumentation Engineering (IJAREEIE) journal.

Datathon (2019):

- **Conscious Detector:** Developed an add-on to the Webex Meetings application that will detect the attentiveness of every participant in a meeting. I built this tool by applying Convolutional Neural Networks for face recognition of the live video stream captured by the front camera of a participant's video device.