ESHWAR N KUMAR

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EDUCATION

University at Buffalo, State University of New York — New York, USA
Master of Science in Computer Science & Engineering — August 2020 - May 2022
Coursework: Analysis of Algorithms, Distributed Systems, Blockchain Application Development, Introduction to Machine Learning, Natural Language Processing & Text Mining, Computer Security, Data Models & Query Languages, Introduction to Pattern Recognition
Graduate Research Assistant (Data Scientist): Contributed towards the development of a NASA funded project called Map of Life (Link)

Visvesvaraya Technological University — Bangalore, India
Bachelor of Engineering in Electronics & Communication (GPA: 3.57/4.0) — August 2013 - July 2017
Coursework: Computer Communication Networks, Data Structures and Algorithms, Operating Systems, Computer Concepts and Programming

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C++, HTML/CSS, JavaScript, TypeScript
- **Tools and Technologies:** MySQL, MongoDB, ELK Stack, Postgres, Spring Boot, AngularJS, Flask, RESTful Web Services, Docker, Kubernetes, AWS, Numpy, Pandas, TensorFlow, CI/CD, Jenkins, Spinnaker, Argo-Rollouts, Git, GitHub, Bitbucket, Agile/Scrum, Eclipse, PyCharm, Spring Tool Suite

PROFESSIONAL EXPERIENCE

Salesforce — May 2021 - August 2021

Software Engineer Intern (Core Public Cloud - Tech R&D) — San Francisco, USA
Technologies Used: Java, Spring, Gradle, Spinnaker, Argo-Rollouts, TypeScript

- Single Stage Experience for FIT Results: Designed and Developed a custom spinnaker stage using plugins that performs the combined functionality of the default Deploy Manifest, Run Job Manifest, and Check Preconditions Stage in Spinnaker. The plugin allows customers to view FIT results in a single stage leading to an increased number of customers to my team and enhancing the User Experience for customers.

Cisco Systems — August 2019 - January 2021

Full Stack Software Engineer (CX-Customer Experience) — Bangalore, India
Technologies Used: Java, Spring Boot, REST, MySQL, AngularJS, AWS

- Asset Groups: Designed and Developed a Microservice that can help customers easily classify their products by creating their groups based on factors like location, product type, etc. during the onboarding stage of a customer to the Customer Portal.
- User-Initiated Scan: Developed a microservice with the help of which customers can manually initiate a vulnerability scan for one or more devices from the UI based on the requirement.

Cisco Systems — August 2017 - July 2019

Software Development Engineer I (Webex Meetings) — Bangalore, India
Technologies Used: Python, Flask, Docker, InfluxDB, 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 ensures that all the infrastructure present in the resource application is in perfect working condition. It blocks the faulty devices from being used by tests to minimize the number of pager alerts that occur due to poor infrastructure.

Cisco Systems — January 2017 - June 2017

Software Engineering Intern (Service Provider Routing) — Bangalore, India
Technologies Used: Python, PyATS, NCS4k, FireX

- 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.

ACADEMIC PROJECTS & PUBLICATIONS

Performance Study of LTE Scheduling algorithms | C++, ns3(Network Simulator 3rd version) — March 2016 - May 2016

- Analyzed the performance of Long Term Evolution(LTE) scheduling algorithms such as Round Robin, Proportional Fair, Maximum Throughput, etc. in a multicellular network on the impact of handover and 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. (Link)

Conversational Question Answering Chatbot | Python, Numpy, Pandas, Pytorch, NLTK, BERT — March 2021 - May 2021

- Developed a chatbot that can read a passage and provides answers to questions related to the passage maintaining naturalness in the conversation.

CERTIFICATIONS, AWARDS, AND EXTRACURRICULAR ACTIVITIES

- Oracle Certified Java Associate
- Speaker - Cisco - Vani Toastmasters Club
- Organizer - Give Away activity for the kids in Parikrma NGO
- Organizer - IoT & Line follower robot workshop at Cisco and Bangalore Institute of Technology
- State 20th rank (95.33% overall marks and 100/100 in Chemistry) - 2nd Pre-University Examination, Recipient - MHRD National Level Scholarship