Vasudev Anant Bongale

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Education

North Carolina State University   Raleigh, NC
Master of Science in Computer Networking; GPA: **4.00/4.00**   *August 2018 - May 2020 (Expected)*
Relevant Coursework: Operating System , Computer Security, Algorithms, Databases, Distributed Systems, Linux Networking

P.E.S Institute of Technology *(aff. to Visvesvaraya Technological University)*   Bangalore, India
Bachelor of Engineering in Electronics & Communications; GPA: **9.54/10**   *August 2011 - May 2015*

Experience

Office of Information Technology, NCSU   Raleigh, NC, USA
OIT Program Management Lite Intern, Co-HR & Marketing Lead   *October 2018 - Present*

Contributed towards growth of **Splunk** based monitoring and data analytics from University server logs. On-boarded different teams to handle various categories of data and tailor them to extract insights, develop correlations through dashboards and reports which increased their productive and monitoring coverage by 10%. Derived and projected insights into Splunk's Performance and Search efficiencies. Led the Marketing and HR responsibilities for the internship program.

LinkedIn   Bangalore, India
Site Reliability Engineer   *September 2017 - August 2018*

Improved Data compliance of Hadoop by 20% by extending a feature using Java, **Gobblin** framework, **Hive** and **Azkaban** to cover critical use cases. Enhanced monitoring efficiency by developing tools in **Python** to fix reliability issues of distributed services and also contributed to design decisions pertaining to **Couchbase** data-store and **Kafka**. Enhanced developer productivity by 15% by building ELK stack for log based monitoring. Developed a **Python Web-App** to gather real-time customer reviews & ratings on **LinkedIn** products and Led internal rotation program to simultaneously take on **cross functional roles** in Development and Reliability Engineering.

Intuit India Product Development Centre   Bangalore, India
DevOps Engineer   *August 2015 - August 2017*
DevOps Co-Op Engineer   *Jan 2015 - July 2015*

Designed and developed automation tools to optimize the efficiency of ETL jobs by 30%. Data Analytics on **TurboTax** to extract insights and drive new features. Design tools to facilitate infrastructure migration of QBO backend into AWS cloud. Developed a **code deployment** framework using **Python Fabric** to achieve 30% higher speed and efficiency of code distribution. Built an **availability** monitoring web-app with AWS frontend to represent geo-locations of distributed applications increasing the post-incident analysis productivity by 60%.

Projects and Research

AutoScaling: Design and implement VM autoscaling on KVM hypervisor and container autoscaling using Kubernetes using native libraries, handling all cases of network data and control path.

Kubernetes Scheduling: Develop custom kubernetes scheduler to provide more control on the pod placement strategies based on the predictions of resource utilization of a node.

XINU: Developed new Process scheduling Policies and implemented Demand Paging in XINU Operating system using C.

Secure Netcat: Python tool to emulate operations of netcat in a secure network channel implementing cryptographic principles.

Transient Imaging: Seeing the Unseen: *Undergraduate Final year Thesis, Dept. of ECE, PESIT*   Jan 2015 - May 2015
Developed a system to capture high speed motion picture of a scene using Coded Time of flight (TOF) and MATLAB mathematical analysis.

Skills

Proficient:	Python, LINUX - **Red Hat Certified Engineer (RHCE)**, Shell Script
Intermediate:	Java, C, LaTeX, GoLang, JavaScript, MATLAB, Hadoop, AWS
Tools:	Git, ELK, D3.js, Vagrant, Chef, Ansible, Kubernetes, Splunk

Leadership and Achievements

2019	Service	Service to Black Mountain and Ashville community through Alternative Service Break (ASB)
2015-18	Excellence	**Five 'Deliver Awesome'** - employee Awards, Intuit, **Bravos** at LinkedIn
2016-2017	Organizer	Organizing/presenting technical talks at *Next Gen Network(NGN)*, Intuit
2016-2017	Mentor	Mentoring interns for projects design and implementation, Intuit
2016-2017	Organizer	Community driving social causes - *We Care and Give Back*, Intuit
2016	Winners (1/15)	In24HRS Annual **Hackathon**, Intuit, NLP prototype
2014	Presentation (25/1000+)	International **Conference** on EMS-IEH, October 2013, AIIMS, New Delhi, India [C1]
2014	Winners	Best student project, IEEE International Conference, IC-IMPETUS
2013	Team Lead	Prakalpa - Annual **Science fair**, PES University
2013	Lead	IEEE community Newsletter, *IEEE Focus* Design team, PES University