PRERANA HARIDOSS

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EDUCATION

Master of Science in Computer Engineering January 2018
Boston University, Boston, MA GPA: 3.41
Courses: Advanced Data Structures, Networking in the Physical World,
Introduction to OS, Cloud Computing, Client-Server Architecture, Cybersecurity, Computer Networks

Bachelor of Engineering in Electrical Engineering June 2013
BNM Institute of Technology, Bangalore, India GPA: 70/100

TECHNICAL SKILLS

Languages	Python, C#, JavaScript, Go, Java, C++
Tools and Technologies	Flask, AWS, GCP, Azure, .NET, Node.js, TCP/IP, Docker, Git

EXPERIENCE

Citrix Software Systems Burlington,MA
Software Engineer *March 2018 - Present*

Machine Creation Services(MCS) is a component of Citrix Virtual Apps and Desktops(CVAD) which implements creation, start, stop, and deletion of collections of persistent and non-persistent virtual machines using the hypervisor APIs.

· Designed and developed automation of the MCS' lifecycle tests, to reduce time spent on manual testing. Currently used for release and hardening testing (PowerShell)
· Developed support for Azure dedicated Hosts on MCS (C#, .NET)
· Performed scale tests for the Azure dedicated hosts feature on MCS and made improvements to performance by $\approx 75\%$.
· Developed tactical changes, including batching, to reduce the number of calls made to AWS by MCS, to combat throttling at scale. Call volume reduced by $\approx 35\%$
· Developed support for Google Cloud Platform on MCS, to provision and power manage machines on CVAD. (C#, .NET)
· Designed and developed auto-tagging mechanisms on Azure, AWS and GCP to monitor cloud resources, reduce the cost of resources (PowerShell, Python, FaaS)
· Part of an Agile team and a Scrum Master for several development teams.

Citrix Software Systems Burlington,MA
Software Engineering Intern *June 2017 - August 2017*

· Implemented infrastructure management for an application(Provisioning Engine) using Service Fabric .

SmartBuildings, UrjaGreen Bangalore, India
Software Engineer *January 2016 - March 2016 & September 2013 - July 2014*

· Developed a Python application to monitor and control: temperature & humidity, energy consumption and the costs of energy consumption of a space.
· Remodeled a monolith application into a service oriented architecture(SOA) and wrote RESTful APIs to execute application functionality.(Python, C)
· Deployed the SOA based application using Ngnix as a web server and setup the cloud environment to collect and store the data.

Indian Institute of Science Bangalore, India
Project Assistant/Software Engineer *July 2014 - December 2015*

· Developed an application for collection of data, ISP quality, in remote locations. (webapp2, Python, Google App Engine, AJAX)

SELECT PROJECTS*

Location Aware Computing in the Hybrid Cloud (JavaScript) Spring 2017

· Enabling computational locality using Function as a Service model. Strategically use resources from public clouds to reduce development life cycle. https://github.com/BU-CS-CE-528-2017/Location-Aware-Hybrid-Cloud