# PRERANA HARIDOSS

2130 Massachusetts Avenue, #5A, Cambridge - 02140
+1(857)999-6148 ⋄ preranaharidas@gmail.com

## 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, starts, stops, and deletes collections of persistent and non-persistent virtual machines using the hypervisor APIs.

- Designed and developed automation of the MCS' lifecycle tests.(PowerShell)
- Developed support for Azure dedicated Hosts on MCS (C#, .NET)
- Performed scale tests for the Azure dedicated hosts feature and made improvements to improve performance by $\tilde{7}5\%$
- Developed tactical changes, including batching, to reduce the number of calls made to AWS to reduce throttling at scale. Call volume reduced by $\tilde{3}5\%$
- 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