

Aprameya Bhat

San Mateo, CA 94401

☎ (+1) 607-338-8439 | ✉ abhat3@binghamton.edu | 🏠 bhataprimeya.github.io | 🌐 aprameya-bhat

Professional Experience

Fanatics, Inc.

San Mateo, CA

SOFTWARE ENGINEER, PLATFORM ENGINEER III

July.2018 - Present

- Working with distributed technologies like Zookeeper, Kafka, Elastic-Search, Graylog, Druid to design and develop highly available & scalable real-time system for end-to-end logging of production systems
- Improving and Maintaining various real-time production services dealing with a large amount of data in the cloud and on-premises data centers
- Developing various services for better handling large amount of data in company platforms

State University of New York at Binghamton

Binghamton, NY

RESEARCH PROJECT ASSISTANT

May.2017 - August.2017 & December.2017 - June.2018

- Worked on Operating System Virtualization concepts: virtual CPU scheduling and processes pinning, aiming at improving the performance of the virtual machine
- Worked on live replacement of hypervisor and reducing the hypervisor involvement in virtual machines operations

State University of New York at Binghamton

Binghamton, NY

GRADUATE TEACHING ASSISTANT

August.2017 - December.2017

- Worked on research project aiming to improve the performance of virtual machines with increasing number of virtual cpu
- Graduate teaching assistant for CS550 - Operating Systems & CS451/551 -Systems Programming
- Conducted classes and exams, clearing students doubt, correcting homeworks, tests and assignments

Evry India Pvt Ltd

Bangalore, India

SOFTWARE ENGINEER ASSOCIATE

July.2015 - July.2016

- Developed backend in MVC model using C# and database connectivity using ADO.NET, building REST API's for communication and writing various business logic
- Developed GUI in MVC model using JavaScript & HTML

Education

State University of New York at Binghamton (Binghamton University)

Binghamton, NY

MASTER OF SCIENCE IN COMPUTER SCIENCE

August.2016 - May.2018

Visvesvaraya Technological University

Mangalore, India

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE

August.2011 - May.2015

Projects

Hypervisor Optimization

Binghamton, NY

RESEARCH PROJECT WITH PROF. KARTIK GOPALAN & INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN

March.2018 - June.2018

- Optimizing the Linux kernel to reduce the hypervisor involvement in virtual machines operations
- Working on reducing the hypervisor overhead in network transaction through VFIO and PCI-passthrough

Live Replacement of Hypervisor

Binghamton, NY

RESEARCH PROJECT WITH PROF. KARTIK GOPALAN, FUNDED BY NATIONAL SCIENCE FOUNDATION

December.2017 - June.2018

- Designing and developing a system with the goal to replace the running hypervisor with the new one on the go
- Replacing the running hypervisor with the fresh copy while eliminating the need to stop running virtual machine

Performance impact of increasing the virtual CPU count in virtual machines

Binghamton, NY

RESEARCH PROJECT WITH PROF. KARTIK GOPALAN

May.2017 - June.2018

- Developing with a goal to keep the performance of the virtual machine constant with increasing number of virtual cpus
- Aiming to increase the performance of the virtual machine by pinning the processes to the virtual cpus

Socket Programming

Binghamton, NY

DEVELOPED AT SUNY BINGHAMTON

October.2017 - November.2017

- Implemented Conference application with client server architecture
- Designed and developed Virtual network routing using Distance Vector routing algorithm
- Multi-threaded HTTP Proxy with Caching

APEX Simulator

Binghamton, NY

DEVELOPED AT SUNY BINGHAMTON

September.2016 - December.2016

- Designed and developed in-order and out-of- order pipeline simulation system for the intel ISA's

Publication

Overcoming Virtualization Overheads for Large-vCPU Virtual Machines

Milwaukee, WI

AUTHORS: OZGUR KILIC, SPOORTI DODDAMANI, APRAMEYA BHAT, HARDIK BAGDI, KARTIK GOPALAN

September.2018

- Published at "2018 IEEE 26th International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems"

Technical Skills

Languages

C, Python, Go, Java, C#, HTML, CSS, Javascript, Shell script, JQuery

Other technologies

Amazon Web Services, Zookeeper, Kafka, ElasticSearch, Druid, Graylog, Kafka-Stream, ASP.NET, MVC, Jira, T-SQL, SVN, Github, Agile Methodology