

Mayank Jha

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EDUCATION

UNIVERSITY OF MASSACHUSETTS, AMHERST
MS IN COMPUTER SCIENCE
FOCUS ON DISTRIBUTED SYSTEMS AND AI
 August 2019 - Current (Expected 2021) | Amherst, MA, USA
 Cum. GPA: 3.77 / 4.00

NATIONAL INSTITUTE OF TECHNOLOGY
B.TECH IN COMPUTER SCIENCE AND ENGINEERING
 July 2011 - July 2015 | Durgapur, India
 First Class, Distinction
 Cum. GPA: 8.48 / 10.00

LINKS

Github:// [mjnovice](#)
 LinkedIn:// [mayank-jha-a895a533](#)

COURSEWORK

GRADUATE

Neural Networks
 Systems
 OS Implementation
 Artificial Intelligence
 Robotics

UNDERGRADUATE

Data Structures and Algorithms
 Computer Architecture
 DBMS + Practicals
 Distributed Systems
 Software Engineering + Practicals
 Operating Systems

SKILLS

PROGRAMMING

Fairly skilled:
 Golang • Shell • Python • Javascript
 HTML • MySQL
 Django • AngularJS

Familiar:

Java • PHP • Android • PostgreSQL

TECHNOLOGIES

Fairly skilled:
 Linux • Redis • HAProxy • Nginx
 Locust • Git • Zookeeper

EXPERIENCE

NVIDIA DEEP LEARNING SYSTEMS - SOFTWARE INTERN

May 2020 - August 2020 | California, USA

- Worked on **AIStore** (<https://github.com/NVIDIA/aistore>) a distributed storage system tailored for peta-scale deep learning systems, written in **Go**
- Co-created the ETL pipeline support (analogous to Spark) for running machine learning workloads using containers on **Kubernetes**.
- Created a development environment for local playground and debugging on **Kubernetes**, using **Minikube**

CAROUSELL SENIOR SOFTWARE ENGINEER, INFRASTRUCTURE/BACKEND ENGINEERING

August 2017 - August 2019 | Singapore

- Helped develop the Ads platform for serving ads on the application. Contributed to the making the product robust and resilient. Facilitated the growth of the backend engineering team from 2 to 6.
- Mentored the incoming engineers on efficient and sustainable coding practices. Developed it from scratch in **Go**.
- Built and scaled the ad-tech infrastructure on **Kubernetes** using Google Cloud.
- Used **Jenkins** for job scheduling and briefly used **Terraform** for infrastructure management.
- Heavily used and developed **Prometheus** plugins for maintainance of **Grafana** dashboards.

FLIPKART SOFTWARE ENGINEER (SDE 2), CLOUD PLATFORM

July 2015 - August 2017 | Bengaluru, India

- Designed and implemented a virtual testing framework for our load balancer service, by making a mock of the entire data center. Used **MiniNExt** library for emulating the network switches, protocols etc. The framework was built in **Python**.
- Designed and implemented the Health Check Service in **Go** for the Software load balancer
- Used **Bash** scripts for maintenance of scripts around **Haproxy**.
- Used **Ansible** jobs for orchestration of configs around the Baremetal servers.

GOOGLE SUMMER OF CODE INTERN

May 2014 - August 2014 | Remote

- Worked with the Fedora Project, to build a cached Bug tracking system, called Bugspad. Used **Redis** as the cache, and **Go** as the framework.

UNIVERSITY OF MASSACHUSETTS, AMHERST SYSTEMS

INDEPENDENT STUDY, PROF. PRASHANT SHENOY

September 2019 - Present

- Studying serverless computing as an alternative to modern day cloud needs and studying the effect of serverless computing on edge platforms. Deployed an open source serverless framework on a **jetson nano/raspberry pi** and **rock64** clusters. Conducted various experiments to make serverless computing possible in mobile phones.