

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

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

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

CAROUSELL SENIOR SOFTWARE ENGINEER, 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**.

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

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.

GETMEASHOP PYTHON/DJANGO HACKER
May 2014 - August 2014 | Remote

- Made a B2B portal for sellers to list their products simultaneously on multiple e-commerce platforms (Amazon, Flipkart, Snapdeal etc.) using **Haystack**, **Solr**, **Django**.

UNIVERSITY OF MASSACHUSETTS, AMHERST NEURAL NETWORKS, PROF. ERIK MILLER
September 2019 - Present

- Working to build a hybrid music recommender for humans, which tackles the cold start problem and aims at beating collaborative filtering solely based on the content. Harnessed rich segmented music data using the **MSAF** library on the Million Song Dataset compared to timbre, loudness and pitch segmented data, improving over a normal deep content based music recommender.

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.