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PhD student at IIT Bombay

Summary

A computer science and engineering PhD student at IIT Bombay with a keen interest in the field of computer systems research. I work with **Prof. Mythili Vutukuru** in the broad field of computer systems and networking at IIT Bombay, and spent the last summer as a research intern under the mentorship of Praveen Jayachandran, Palanivel Kodeswaran and Sayandeep Sen at IBM Research India exploring the efficacy of various state-of-the-art network stacks.

Education

2019 - Present	PhD, Indian Institute of Technology Bombay <i>Computer Science and Engineering (CPI: 8.48/10)</i> Did core computer systems courses like Design and Engineering of Computing systems (CS744) and Topics in Virtualization and Cloud Computing (CS695), and passed my PhD seminar with an AA grade.
2013 - 2017	Bachelor of Engineering <i>R. V College of Engineering, Bangalore</i> Computer Science and Engineering (CPI: 8.14/10)

Course Projects

- **Distributed Key Value Store (Guided by Prof. Umesh Bellur, IIT Bombay)**

Built a distributed key value store which could scale up to 64 nodes holding key value pairs. New nodes could join in at any point in time, and the implementation of notification of a new node joining the network and of distribution of keys among the nodes was done using the Chord Protocol. Each node server had a thread pool along with a write through cache backed by a file based key value store.

Work History

Apr, 2020 - Jun, 2020	Research Intern <i>IBM Research India</i> Was an intern in the Telco Cloud team at IBM Research India and looked at efficacy of network stacks like mTCP and TAS over the Linux networking stack.
Mar, 2018 - Dec, 2018	Full Stack Developer <i>Pitstop</i> Built the company's first android application for customers and also built the complete backend for that particular android application.
May, 2017 - Feb, 2018	Software Developer <i>Perpule 1Pay</i> Perpule 1Pay is India's first self checkout application, where users can scan items they wish to buy and pay through the application. It raised a Series A funding of \$4.7M. Perpule's client list includes big retail chains like BigBazaar, More, Hypercity, Spar, and Metro. My contribution was as follows: <ul style="list-style-type: none">• Was part of a 3 member team which built the new Perpule 1Pay android application from scratch.• Part of a 4 member team which engineered offline first implementation of the android

application and backend sync over the network.

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