

## EDUCATIONAL QUALIFICATIONS

2019	BTech, Computer Science and Engineering	Indian Institute of Technology, Kanpur	CPI: 9.7/10
------	---	--	-------------

## PROJECTS

## Using a Liveness-Based GC

*Undergraduate Project • Guide: Prof. Amey Karkare*

- Compared liveness-based and conventional reachability-based GCs (Garbage Collectors) in terms of speed/effectiveness.
- Came up with an idea for a practical liveness-based GC using profile guided compilation step.
- Created a profiler to instrument a JVM (Java Virtual Machine) identifying objects which would be uncollected by conventional GCs.
- **Report:** [home.iitk.ac.in/~milindl/cs396a/](http://home.iitk.ac.in/~milindl/cs396a/)

## Dashboard Extension/Webapp

*March 2017 • InterIIT Tech Meet*

- Developed an extension for Chrome/Firefox, and a web UI for a dashboard for IITK students to act as a centralized umbrella for various services.
- Used **dockerized microservices** written in Golang, NodeJS, Python communicating using JSON RPC. The frontend used Angular2.
- Adjudged the **first** amongst all IITs taking part.
- **Github:** [yashsriv/beethoven](https://github.com/yashsriv/beethoven)

## Miscellaneous

- **PoGo: Golang to x64 Compiler**  
*6<sup>th</sup> Semester • Course Project • C++, Lex, Yacc*
- **Mao: A Dynamic-Rule Card Game**  
*6<sup>th</sup> Semester • Course Project • Haskell*
- **Mafia Webapp: RFC6455 Implementation**  
*September 2016 • Python, JavaScript, Android*
- **Autonomous Chess Playing Robot +**  
*December 2015 • Robotics Club • OpenCV, C++*
- **Microsoft Code.Fun.Do**  
*September 2015 • Universal Windows App*

## SKILLS

- **Languages:** C++, Python, JavaScript, Java, Go
- **Technologies:** Node, Angular, SQL
- **Utilities:** Bash, git/hg/subversion, Emacs/Vim, Linux
- **Exposure:** Haskell, MongoDB, Docker

## CO-CURRICULARS

- Coordinator *2017-2018*, Programming Club, IITK
- Participant, IITPD (*IIT Delhi, 2016*)
- Participant, NUJS PD (*Kolkata 2017*)
- Within top 15 teams in India in CSAW'16 CTF

## WORK EXPERIENCE

## Cohesity Storage Solutions, Bangalore

*June 2021 - Present • Cloud Team*

- Integrated AWS EC2 and RDS adaptors into Cohesity's SaaS solution.
- Worked across the stack to provide higher velocity for the team - C++ backend, Angular/Go frontend and QA.

## Quadeye Securities, Gurgaon

*July 2019 - May 2021 • Systems Engineer*

- Worked on a latency-critical platform facilitating algorithmic trading for strategies around the globe.
- Optimized market-data arrival to order-sending flow using modern C++ and data analysis.
- Worked on automation of sanity checking, stats generation and code quality checks.

## Flipkart, Bangalore

*Summer 2018 • Pricing & Promotions Platform • Intern*

- Created a user friendly debug console aggregating data from multiple microservices and providing a view of offer status.
- Wrote scripts to migrate offer/pricing data and generate reports.
- Exposure: Kafka, Storm, RabbitMQ

## Open Source Contributions

- Contributed multiple patches to the Toolkit component used by Mozilla Firefox (Bookmarks and History, OS.File).

## ACADEMIC ACHIEVEMENTS

- **Academic Excellence Awards** for 2015-16, 2016-17 from IIT Kanpur.
- **JEE Advanced 2015** All India Rank **934**.
- Qualified **Kishore Vaigyanik Protsahan Yojana 2015**.

## RELEVANT COURSES

**Introduction to Programming**<sup>1</sup>, Discrete Mathematics, Introduction to Logic, Abstract Algebra, Data Structures & Algorithms, Computer Organization, Algorithms II, Operating Systems, Theory of Computation, Compiler Design, Functional Programming, Computer Systems Security, **Computing Laboratory 1<sup>1</sup> & 2<sup>1</sup>**, **Advanced Compiler Optimizations**<sup>1</sup>, Computer Networks, **Principles of Programming Languages**<sup>1</sup>, Parallel Computing. Analysis of Concurrent Programs, Blockchain Technology and Applications

<sup>1</sup>: A\* grade, exceptional performance.