

EDUCATIONAL QUALIFICATIONS

2019	BTech, Computer Science and Engineering	Indian Institute of Technology, Kanpur	CPI: 9.7/10
2015	HSC, Maharashtra Board	Dr.Kalmadi Shamrao High School, Pune	87.54%
2013	AISSE, CBSE	SES Gurukul, Pune	CGPA: 10.0/10.0

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/

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)

Mafia WebApp

September 2016

- A companion webapp for the party game Mafia.
- Implemented **RFC6455** (WebSocket protocol) from scratch.
- Wrote a server in Python, a web-based frontend. Extended this to write an Android App as a part of Google DevFest 2016.
- **Github:** [milindl/mafia-reloaded](https://github.com/milindl/mafia-reloaded)

PoGo: Golang to x64 Compiler

6th Semester • Course Project • C++, lex, yacc

Github: [prannayk/CS335](https://github.com/prannayk/CS335)

Mao: A Dynamic-Rule Card Game

6th Semester • Course Project • Haskell

Github: [milindl/mao](https://github.com/milindl/mao)

Autonomous Chess Playing Robot+

December 2015 • Robotics Club, IITK • OpenCV, C++

Microsoft Code.Fun.Do

September 2015 • Universal Windows App

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

Quadeye Securities, Gurgaon

July 2019 - Present • Systems Engineer

- Worked on a latency-critical platform facilitating 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).
- Code available on mozilla-central.

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**.

SKILLS

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

RELEVANT COURSES

Introduction to Programming¹, 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 1¹ & 2¹**, **Advanced Compiler Optimizations**¹, Computer Networks, **Principles of Programming Languages**¹, Parallel Computing. Analysis of Concurrent Programs, Blockchain Technology and Applications

¹: A* grade, exceptional performance.