

Education

- 2021–Present **MS in Computer Science**, *University of Colorado*, Boulder
Expected Graduation: 2023 | CGPA: 4.0/4.0
- 2012–2016 **BE in Information Science**, *Visvesvaraya Technological University*, VTU
First class with distinction | CGPA: 8.93/10.0

Skills

- Proficient in idiomatic C++11/14, C, and System Design.
- Working proficiency in C++17/20, Python, Java, JS, Docker, Kubernetes.
- Proficient in SVN, Perforce, Git, Cmake, GDB, MySQL, REST, gRPC, GCP.

Experience

- 2022–2022 **Software Engineer Intern**, *AMD*, San Jose
- Implemented a digital-signature-based binary verification tool to replace the old checksum-based binary verification tool.
 - Developed a parser for IEEE1735 DSL that is used for IP encryption.
- 2019–2021 **Software Engineer**, *Self*, Bangalore
- Developed a contractor mgmt app for the South Western Railways accounting dept, maintenance app for Prakruthi Apartments among several others.
- 2018–2019 **R&D Engineer II**, *Synopsys*, Bangalore
- Developed a cli-tool to enable IEEE1687 compliance in non-standard IPs.
 - Implemented a parser for IEEE1687 DSL (namely ICL and PDL).
 - Worked on the serialization of the entire DFT Codebase.
 - Worked on many critical bug fixes and enhancements related to pattern generation, synchronization, and serialization.
- 2016–2018 **System Software Engineer**, *Hewlett-Packard Enterprise*, Bangalore
- Developed REST APIs to manage temperature induced fs corruption in multi-node systems and to add support for role-based access control in StoreOnce user mgmt module.
 - Developed REST APIs to add support for powercycle and SSH vaulting.
 - Worked on many customers facing and pre-production bugs related to user mgmt, security, ssh, and firmware.

Teaching

- 2022–Present **Student Assistant for CSCI 5525 Compiler Constructions**, *CU Boulder*
Worked on upgrading the compiler for the course. Implemented parser, optimizations, closure, regalloc, etc.
- 2021–Present **Teaching Assistant for CSCI 2400 Computing Systems**, *CU Boulder*
Conducted office hours for labs(cpp optimization, debugging, profiling, code injection etc) and managed course logistics(such as setting up exams, quizzes, assignments etc).

Projects

- Spring 2022 **PyWASM - Python to WASM Compiler**, *Compiler Constructions*
Created an optimized python(subset)-to-webassembly compiler as part of CSCI 5525.

- Fall 2021 **Signless - Anonymous Publishing Platform**, *Datacenter Scale Computing*
Working on developing an anonymous publishing platform with backlinks, search, tagging, etc as part of the DCSC Course to enable civil discourse online.
- 2016 **IEEE 802.11 AC/AD Packet Encoder, Decoder, and RCS**, *Capstone Project*
Developed a packet encoder and decoder for 802.11ac/ad wifi packets for a next gen wireless router for a startup named Asarva.