

SHREYAS SHIVAKUMAR KASETTY

+91 7338044932 ◇ [linkedin.com/in/shreyas-kasetty-66802a176/](https://www.linkedin.com/in/shreyas-kasetty-66802a176/) ◇ shreyas30kasetty@gmail.com

EDUCATION

RV College of Engineering, Bangalore
Bachelor of Engineering, Computer Science

August 2017 - August 2021
CGPA: 9.05/10

Maruthi Magnolia PU College
Senior Secondary Examination, PUC Board

July 2015 - June 2017
PCM Percentage: 91%

Jnanadeepa School
Secondary Examination, CBSE

July 2005 - June 2015
CGPA: 10/10

SKILL-SET

Programming Languages: C, C++, Python, Javascript

Design Softwares: Figma, Adobe XD, Adobe Photoshop

Technical Skills: Python Automation, MERN Full Stack Web Development, Unreal Engine Game Development in C++, Cisco IOS XR development, Firebase

Software Tools: Visual Studio Code, Jenkins, Postman

WORK EXPERIENCE

Cisco Systems India

Software Engineer I, MIG Optical, NCS1K team

Bangalore, KA
August 2021 - Present

- Developed data plane software features for NCS1010(C band) Optical Line System(OLS), which is a next-generation OLS that multiplexes the signals received from multiple routers over a signal fiber.
- Implemented performance monitoring feature for NCS1010, which service providers use to collect, store, set thresholds for, and report performance data to detect network issues early.
- Proposed and implemented an efficient algorithm to optimize the channel failure detection time in the Optical Line Terminal module of NCS1010. Channel failure detection time was lowered by 10 seconds.
- Designed and developed a visual interactive interface to monitor and troubleshoot the internals of the NCS1010 OLS using Django and ReactJS. Enhanced the interaction of users with network devices, which boosted work and business productivity significantly.
- Enhanced the debuggability of the NCS1010 system, actively triaged issues, and fixed bugs.

Cisco Systems India

Software Developer Intern, MIG Optical, NCS1K team

Bangalore, KA
Feb 2021 - June 2021

- Designed and developed an Automation Framework for faster integration of ODM firmware into NCS1010 OLS.
- Created a quality standard and acceptance criteria for firmware integration.
- Devised an interface for seamless and one-touch automation with the help of CI/CD pipelines.

RELEVANT PROJECTS

Enhancing SIPp tool for Media Plane Support - Project with Citrix Systems Research and Development Period

Network Protocols, Multi-threading, Resource Allocation

Feb 2019 - June 2019

- Enhanced the SIPp open-source test tool for the transfer of media packets and deployed it in proxy mode.
- Incorporated RTP and RTCP channel establishment with a parallel call feature.

Wipro-IISC Internship project - SDV in a Box Global AV Simulator Period

Networking, Game Development, IoT, Open Source, Carla, Distributed Systems June 2019 - November 2019

- Developed a game using C++ and Unreal Engine to understand the client-server model of Carla.
- Researched and designed a distributed multi-server architecture to improve the frame rate of the Carla simulator enabling the use of multiple GPUs to render multiple simulation agents simultaneously.
- Designed and built an emulator using a Raspberry PI car controlled by the Carla Simulator.

Printly System - Remote print application

Web Development, UI/UX, Electron JS

Period

April 2020 - June 2020

- Devised a system that facilitates online reservation of print orders for students.
- Designed and developed two client applications that cater to the online reservation, printing, and delivery services.
- Web application link - <https://shreyasskasetty.github.io/printlymobile/>

CERTIFICATIONS & ACHIEVEMENTS

- Ranked in the top 10 for the idea "GUI-based Component Analyser for Cisco NCS1010" in the Cisco MIG Optical hackathon out of 100+ Ideas.
- Received Quarterly Quality Reward for Q1FY23 for the project "Automation framework for faster Integration of ODM Firmware into OLS"
- Received Innovate Everywhere Connected Recognition award for the project "Automation framework for faster Integration of ODM Firmware into OLS"
- Gold Medal in Discrete Mathematics course NPTEL.(By IIT Ropar)
- Elite certification in Computer Architecture course of NPTEL(By IIT Delhi)

EXTRA-CURRICULAR ACTIVITIES

- **IISC summer-school in computer science(2019):** <https://events.csa.iisc.ac.in/summer-school-2019/selected-candidates.html>
- Mentored and trained recruits in Cisco MIG optical Organisation.
- Volunteered with **Habitat for Humanity**, an NGO, to help build shelters and improve sanitary facilities for school children and other vulnerable members of society.
- Won the PYKKA National Level Badminton tournament held at Hospet, Karnataka.
- Represented RV College of Engineering as the badminton team captain in zonal and inter-university tournaments.