SHREYAS SHIVAKUMAR KASETTY

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CAREER OBJECTIVE

My career goal is to become an industry researcher capable of building product designs that augment human intelligent and make it accessible to all individuals.

EDUCATION

R.V. College of Engineering, Bangalore August 2017 - June 2021
Bachelor of Engineering, Computer Science CGPA: 9.05/10

Maruthi Magnolia PU College July 2015 - June 2017
Senior Secondary Examination, PUC Board PCM Percentage: 91%

Jnanadeepa School July 2005 - June 2015
Secondary Examination, CBSE CGPA: 10/10

SKILL-SET

Languages and API: C,C++, Python, Javascript.
Operating systems: Linux Red Hat, Ubuntu
Design Softwares: Figma, Adobe XD, Adobe Photoshop
Technical Skills: Python Automation, full stack development, software development in C,HTML, CSS, Material UI, Electron Framework, Firebase
Software Tools: Visual Studio Code, Jenkins, Postman

WORK EXPERIENCE

Cisco Systems India Bangalore, KA
Software Engineer I, MIG Optical, NCS1K team August 2021 - Present

Engaged in developing data plane software features for NCS1010(C band) Optical Line System(OLS). Cisco NCS1010 is a next-generation optical line system which multiplexes the signals received from multiple routers over a signal fiber.

- Designed and developed a visual interactive interface to monitor the internals of NCS1010 optical line system.
- Implemented data plane support for performance monitoring, 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 in the Optical Line Terminal module of NCS1010 from 10 seconds to 2 seconds.
- Enhanced the debuggability of NCS1010 system, actively triaged issues, and fixed bugs.

Cisco Systems India Bangalore, KA
Software Developer Intern,MIG Optical, NCS1K team Feb 2021 - June 2021

Designed and developed a python automation framework to regress firmware of Optical Line Systems(OLT, ILA, RAMAN modules). It helped reduce the number of Development Test cycles. One-touch integration using Jenkins made the whole process seamless and fast.

RELEVANT PROJECTS

Enhancing SIPp tool for Media Plane Support - Project with Citrix Systems **Time Period**
Network Protocols, Multi-threading Feb 2019 - June 2019

Enhanced the SIPp open source test tool to support media transfer and deployed it in proxy mode. Incorporated RTP and RTCP channel establishment with parallel call feature.

Wipro-IISC Internship project - SDV in a Box Global AV Simulator **Time Period**
Networking, Game Development, IoT, Open Source, Carla, Distributed Systems June 2019 - November 2019

- Explored and analysed the architecture of an open source Automotive Vehicle Simulation software Carla.
- Developed a game using C++ and Unreal Engine gaming engine to understand the client-server model of the engine.
- Researched and enhanced the frame rate of Carla simulator to spawn multiple actors in the simulation environment with consistent performance. Explored multi-server architecture to develop simulation software to improve graphic performance.
- Designed and built an emulator using a Rasberry PI car controlled by the Carla Simulator.

Printly System - Remote print application **Time Period**
Web Dev, Electron, HCI April 2020 - June 2020

The project aimed at solving the thesis and project report submission to the university during the pandemic. Designed a system which enables students to remotely order print jobs. Developed a web app that interfaces students and a native desktop application using electron.js that interfaces the person who operates the print machine. Web App - https://shreyasskasetty.github.io/printlymobile/

Minesweeper Game using Basic C **Time Period**
Data Structures and Algorithms Sept 2019 - Oct 2020

Designed and developed a minesweeper game to get a fundamental understanding of recursion, linked list and other data structures and algorithms.

CERTIFICATIONS & ACHIEVEMENTS

- Ranked in top 10 for the idea "GUI based Component Analyser for Cisco NCS1010" in Cisco MIG Optical hackathon out of 100+ Ideas.
- One among the 20 winners of Quarterly Quality Rewards for Q1FY23 in MIG Optical Org.
- Innovate Everywhere Connected Recognition award for Designing and Developing Automation Framework to validate Optical line system Firmware.
- 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
- Developed a web page for software development essentials to accelerate the knowledge transfer process in the team.
- Engaged in mentoring and training freshers in Cisco MIG optical Organisation.
- Volunteering work at **Habitat for Humanity** an NGO to build shelter and sanitary facilities for school children and the weaker sections of society.
- National Level Badminton PYKKA Tournament Gold Medal.
- Represented the College as the captain of Badminton team for four years.