

Apoorv Sachan

EDUCATION

THE NATIONAL INSTITUTE OF ENGINEERING

BENG IN COMPUTER SCIENCE

Sept 2020 | Mysore, KA

CGPA: 8.30 / 10

KENDRIYA VIDYALAYA MYSORE

XII-CBSE May 2016 | Mysore, India

Score: 90%

X-CBSE May 2014 | Mysore, India

Score: 95%

LINKS

Email:// apoorv.99.sachan@gmail.com

LinkedIn:// [Apoorv Sachan](#)

Github:// [apoos-maximus](#)

GNOME-Gitlab:// [apoos-maximus](#)

Blog:// <https://cocoonlyfly.wordpress.com>

Twitter:// [@ApoosMaximus](#)

SKILLS

SOFTWARE DEVELOPMENT

Experienced

C • C++ • Bash • Batch • CMake

Socket Programming • UDP

TCP • Ethernet • ARP • DHCP

GTK • Java • Podman

Toolbox • Docker

Average

Python • HTML • CSS

PHP • MySQL

Currently Exploring

QUIC Protocol • Raw Sockets

TCP Optimizations • FreeBSD

Networking

INTERESTS

COMPUTER SCIENCE

Systems Engineering

Networking Protocols

Distributed Systems

Open-Source-Software

Electronics

Raspberry-Pi • Arduino

HOBBIES

Electronics • Painting

Sketching • Photo Editing

Gaming • open-source contribution

Blogging

EXPERIENCE

CLOUDBRINK | SOFTWARE ENGINEER

Oct 2021 - Present | Bangalore, KA, India

- **Layer 2** - Implemented **Ethernet Bridging Protocol** and its various components - **ARP** and **DHCP** modules. Designed corresponding tables like **MAC table** and **ARP table** to support preexisting **L2** protocols. Working knowledge of **Proxy-ARP** and **Proxy-DHCP** approaches. Also worked on different **Bandwidth enhancement** approaches.
- **Layer 3** - Good knowledge about typical Layer 3 protocols such as **IPv4**, **ICMP** (Internet Control Message Protocol), and routing protocols like **OSPF** (Open Shortest Path First) and **BGP** (Border Gateway Protocol).
- **Layer 4** - Gained working knowledge of **TCP** and **UDP** protocols in the **L4** layer in various scenarios, and in the product itself, with **socket programming** projects.
- **Windows Driver Programming** - Learnt basics of windows driver programming with porting an **Ethernet Driver** and **Windows Filtering Platform** by implementing new **IOCTLs**.
- **Windows Programming** - Good Experience working with **C programming** in the windows environment with **Windows APIs** like **IO Multiplexing** techniques, and **IP layer** networking APIs, and **Batch Scripting** etc.
- **Compilation for ARM** - Compiling networking components for the **ARM** environment, **Native-Compilation** and **Cross-Compilation**, and dockerisation for ARM.
- **gRPC** - Worked with gRPC as a cross-platform IPC mechanism.
- **Golang** - Programming in Go with http-client application.
- **Docker** - Setting up and porting networking applications to containerized environments for easy deployment and swarm testing.

FICO | ASSOCIATE SOFTWARE ENGINEER

Oct 2020 - Sep 2021 | Bangalore, KA, India

FICO | INTERN

Jan 2020 - Sept-2020 | Bangalore, KA, India

GNOME | OPEN SOURCE CONTRIBUTOR

Apr 2020 - Present

GOOGLE SUMMER OF CODE' 20 @ GNOME

May 2020 - Aug 2020

- Contributed to GNOME's default file manager Nautilus
- Ported the Properties dialog to use the modern GtkBuilder for UI construction
- It involved de-coupling the business logic from the complex UI creation code written in C and porting it to XML definitions to enable fast and easy redesign.
- Made minor changes to the Properties Dialog UI as proof-of-concept.

GIZMO ROBOTICS | SOFTWARE ENGINEERING INTERN

Apr 2019 - Oct 2019 | Mysore, KA, India

HPE NIE PROJECTATHON | STUDENT DEVELOPER & TEAM LEADER

Oct 2018 - May 2019 | NIE Mysore, KA, India

- This was a research-based project on container-security where the objective was to develop tools and come up with the best approaches to ensure the safety of hosts which are home to today's modern containerized apps.
- The exploration involved Open source tools used to monitor containers in static and dynamic environments for malicious activities and vulnerabilities, which can compromise the host server or system.